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THE COLUMBIAN UNIVERSITY.

CATALOGUE,

1901-1902.

ANNOUNCEMENTS,

1902-1903.



WASHINGTON, D. C.

JUDD & DETWEILER, PRINTERS.

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1902.

1903.

JANUARY.

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CALENDAR.

1902.

Jan. 31, *Friday*.—Mid-year Examinations completed in Columbian College.

Feb. 1, *Saturday*.—Mid-year Examinations completed in Corcoran Scientific School.

Feb. 3, *Monday*.—Second Term begins in Columbian College and Corcoran Scientific School.

Feb. 22, *Saturday*.—Washington's Birthday ; a holiday.

March 1, *Saturday*.—Annual Meeting of the Alumni Association.

March 27, *Thursday*.—Davis Prize Speaking in Columbian College.

Mar. 28, 29, *Friday, Saturday*.—Easter holidays.

May 12, *Monday*.—Last day on which Theses may be presented to the Dean of the School of Graduate Studies.

May 15, *Thursday*.—Examinations for Degrees completed in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

May 19, *Monday*.—Examinations completed in Medical School and Dental School.

May 21, *Wednesday*.—Examinations for Degrees completed in Law School and School of Comparative Jurisprudence and Diplomacy.

May 26, *Monday*.—Doctorate Disputation.

June 1, *Sunday*.—Baccalaureate Sermon.

May 31-June 4, *Saturday to Wednesday*.—Examinations for Admission to Columbian College.

June 3, *Tuesday*.—Final Examinations completed and session closed in Columbian College and Corcoran Scientific School.

June 3, *Tuesday*.—Commencement of Schools of Law.

June 4, *Wednesday*.—Commencement of Medical and Dental Schools.

June 5, *Thursday*.—Commencement of Columbian College, Corcoran Scientific School, and School of Graduate Studies.

1902.

June 4, *Wednesday*.—Annual Meeting of the Board of Trustees.

SUMMER VACATION.

Sept. 20-24, *Saturday to Wednesday*.—Examinations for Admission to Columbian College.

Sept. 24, *Wednesday*.—Academic Year begins in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

Sept. 29, *Monday*.—Fall Examinations in Medical School and Dental School.

Sept. 29, *Monday*.—Academic Year begins in Law School.

Sept. 30, *Tuesday*.—Academic Year begins in School of Comparative Jurisprudence and Diplomacy.

Oct. 1, *Wednesday*.—Academic Year begins in Medical School and Dental School.

Nov. 27-29, *Thursday to Saturday*.—Thanksgiving recess.

RECESS FROM DECEMBER 24, 1902, TO JANUARY 3, 1903, INCLUSIVE.

1903.

Jan. 28, *Wednesday*.—Annual Meeting of the General Association of Alumni.

Jan. 30, *Friday*.—Mid-Year Examinations completed in Columbian College.

Jan. 31, *Saturday*.—Mid-year Examinations completed in Corcoran Scientific School.

Feb. 2, *Monday*.—Second Term begins in Columbian College and Corcoran Scientific School.

April 9, *Thursday*.—Davis Prize Speaking in Columbian College.

April 10, 11, *Friday, Saturday*.—Easter holidays.

May 11, *Monday*.—Last day on which Theses may be presented to the Dean of the School of Graduate Studies.

May 13, *Wednesday*.—Examinations for Degrees completed in Columbian College, Corcoran Scientific School, and School of Graduate Studies.

1903.

- May 15, *Friday*.—Examinations for Degrees completed in Law School and School of Comparative Jurisprudence and Diplomacy.
- May 16, *Saturday*.—Examinations completed in Medical School and Dental School.
- May 25, *Monday*.—Doctorate Disputation.
- May 30, *Saturday*.—Final Examinations completed and session closed in Corcoran Scientific School.
- May 31, *Sunday*.—Baccalaureate Sermon.
- May 30–June 3, *Saturday to Wednesday*.—Examinations for Admission to Columbian College.
- June 1, *Monday*.—Commencement of Medical and Dental Schools.
- June 2, *Tuesday*.—Final Examinations completed and session closed in Columbian College.
- June 2, *Tuesday*.—Commencement of Schools of Law.
- June 3, *Wednesday*.—Commencement of Columbian College, Corcoran Scientific School, and School of Graduate Studies.
- June 3, *Wednesday*.—Annual Meeting of the Board of Trustees.

EDUCATIONAL ADVANTAGES OF WASHINGTON.

The Columbian University comprises the following schools:

COLUMBIAN COLLEGE.

CORCORAN SCIENTIFIC SCHOOL.

SCHOOL OF GRADUATE STUDIES.

LAW SCHOOL.

SCHOOL OF JURISPRUDENCE AND DIPLOMACY.

MEDICAL SCHOOL.

DENTAL SCHOOL.

Washington is a center of legislative and scientific activity. The departments of the Government draw thousands of young men and young women of talent and training, whom the in-

centive of civil-service requirements encourages to higher courses of liberal, scientific, and professional study. The scientific and professional schools, with lecture hours after 4.30 p. m., do not conflict with the hours of the departments of the Government. This gives to the student the greater part of the day for research or laboratory work at the University or in the libraries, museums, and laboratories of the Government, and at the same time it opens to those holding Government positions all the opportunities of higher education. The Columbian University is able for this reason also to enroll upon its Faculties men of national eminence, whose high functions in the Government place them beyond the reach of any institutions outside of Washington. The influence and example of these men develop such personal forces in education as cannot be equaled elsewhere in this country.

The spirit of nationalism in Washington, the close association with public men and public questions, constitute a humanizing influence of the greatest value in the development of the American scholar. To the undergraduate or graduate student of the arts and sciences, to the professional student in law, diplomacy, medicine, or dentistry, Washington furnishes opportunities and facilities for study unrivalled by any American city. Special libraries and large collections, illustrative of the various arts and sciences, have been accumulated by the action of Congress through a long series of years.

In view of the fact that in collecting such archives and materials it was the original purpose of the Government "to promote research and the diffusion of knowledge," the Congress of the United States has made these treasures accessible to students under the terms of the following joint resolution, approved April 12, 1892:

"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher educa-

tion now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

To students of Law and of Diplomacy the peculiar advantages of Washington are manifest. The Supreme Court is in session from October to May, and on each Monday morning delivers opinions orally. Students may listen to these and thus keep in touch with the latest utterances of the greatest court. The Supreme Court Library is open to students, and the State Department, with its large library, affords facilities for the study of diplomacy. Congress is in session during the winter, and here the student sees the practical workings of the largest and most important legislative body, and listens to the discussion of matters touching interstate and foreign commerce and diplomatic relations. Here one comes into contact with the practical workings of the National Government in all its parts, and may secure the views and advice of practical men in all the great departments. Many of the lecturers in the Schools of Law occupy the most important official positions in the gift of the nation and speak from a practical knowledge of the subjects they teach.

To students of Medicine and of Dentistry the facilities for study and research are no less remarkable. The Army Medical Museum, which is open for inspection daily, presents a field for study superior to any other institution of the kind, either in this country or in Europe. It has an unrivalled collection of anatomical and pathological specimens, illustrating normal anatomy and the results of disease in every form, and an almost unlimited number of other preparations showing the effect of gunshot

wounds and surgical injuries of every kind. It also contains almost numberless crania of every human nationality, by an examination of which the student can find many dentures of theoretical perfection, and observe the effect of civilization and race admixture upon the dental organs. At the United States Patent Office are models of every conceivable form of dental instruments. In the National Museum is found the most complete and best arranged collection of Materia Medica in the world. The drugs are shown in all their processes of manufacture, from the original package to the delicate alkaloid constituting the active principle.

To students of Science Washington is attractive, since scientific investigation conducted by the Government has gathered here a larger number of scientific specialists than are to be found in any other locality. The Washington Academy of Sciences and Affiliated Societies had, in 1901, a membership of 2,013. All branches of the physical and natural sciences are cultivated, and the results of investigations are exhibited. Among scientific institutions accessible to students under proper restrictions are the following: The National Museum, the Department of Agriculture, with extensively equipped laboratories for the study of chemistry, botany, vegetable physiology, biochemistry, the physics and chemistry of the soil, meteorology in all its phases, entomology, and microscopy; the Treasury Department, with its assay office, laboratory of the Internal Revenue Commissioner, division of architecture, laboratory for testing building materials, Bureau of Statistics, and the Coast and Geodetic Survey, in which are many meteorological and physical laboratories; the Interior Department, including the Geological Survey, with its chemical, physical, geological, mineralogical, paleontological, and other divisions, and the Patent Office, representing in its material and collections all the varied applications of science and the mechanic arts; the Navy Department, including the Naval Observatory, the National Albatross Office, the Hydrographic Office, the Gun Shops, with their physical and chemical laboratories. These are but a few of the many scientific institutions in Washington: it is the one city where the student is sure to find a congenial environment.

THE BOARD OF TRUSTEES OF THE COLUMBIAN UNIVERSITY.

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Vice Chairman.

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M. M. PARKER, LL. B., Washington, D. C.

THEODORE W. NOYES, LL. M., Washington, D. C.

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SAMUEL W. WOODWARD, *Treasurer.*

CHARLES W. HOLMES, *Secretary.*

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Executive: GREENE, *Chairman*, WOODWARD, MATTINGLY, LARNER,

GALLAUDET, WILSON. CHARLES W. HOLMES, *Secretary*.

Nominations: WOODWARD, PARKER, LEVERING.

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Catholic Scientific School: EDISON, POWELL, MASON.

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Law School: MATTINGLY, CURRY, LARNER.

School of Jurisprudence: MATTINGLY, DARLINGTON, NOYES.

Medical School: GREENE, WILSON, WOODWARD.

Dental School: WILSON, GREENE, EDISON.

Auditing: WILSON, MCKNEW, PARKER.

Endowment: LEVERING, WOODWARD, GALLAUDET, GREENE, MORGAN, MACVEIGH.

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Dean of the Corcoran Scientific School, HOWARD L. HODGKINS, Ph. D.

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Dean of the Medical School, E. A. DE SCHWEINITZ, Ph. D., M. D.

Dean of the Dental School, J. HALL LEWIS, D. D. S.

The University Council meets in committee on the second Monday of each month at 4 o'clock p. m.

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J. E. LARNER.

WILLIAM W. JOHNSTON, M. D.

J. O. WILSON.

WILLIAM P. CARR, M. D.

WM. F. MATTINGLY, LL. D.

STERLING RUFFIN, M. D.

D. KERFOOT SHUTE, M. D.

ALUMNI ASSOCIATIONS.

An address list of graduates is kept at the University by the Secretary of the General Alumni Association. All Alumni are requested to send to the Secretary of the General Alumni Association, and any other persons, information in reference to graduates or former students of the University.

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WILLIAM HAMILTON.	STANTON C. PIERCE.

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HOWARD L. HODGKINS, Secretary.

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S. CARROLL FORD.	STANTON C. PIERCE.
WILLIAM HAMILTON.	MISS A. L. PIERCE.
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MISS L. B. HOLBROOK.	A. T. STUART.
J. W. HOLCOMBE.	H. A. VIEHL.

H. F. WOODARD.

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Vice-President: WILLIAM H. STAYTON, LL. M.

Secretary: JAMES M. GRAY, LL. M.,

189 Montague Street, Brooklyn, N. Y.

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Professor of Romance Languages. 111 Second Street, N. E.
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Clerk of the Most Court. 2126 R Street
- BERNARD HERMAN, B. S.,
Instructor in Civil Engineering. 702 H Street
- DAVID J. HILL, LL. D.,
Professor of European Diplomacy and Treaties. 1313 K Street
- EDWIN A. HILL, M. S.,
Assistant in Chemistry. U. S. Patent Office
- HARRY GRANT HODGKINS, A. B.,
Instructor in Mathematics. U. S. Naval Observatory
- HOWARD LINCOLN HODGKINS, PH. D.,
Dean of the Corcoran Scientific School and Professor of Mathematics and Physics. 1830 T Street
- JOHN W. HOLCOMBE, A. M., M. DIP.,
Assistant Professor of Political Science. 1829 Corcoran Street
- CHARLES WENDELL HOLMES,
Registrar of the University. The Columbian University
- N. MONROE HOPKINS, B. S.,
Instructor in Chemistry. 1833 Kalorama Avenue
- J. C. HORNBLLOWER, PH. B.,
Professor of Architecture. 1509 H Street
- I. A. HOURWICH, PH. D.,
Instructor in Statistics. 1416 F Street
- N. W. HOYLES, Q. C.,
Lecturer on Jurisprudence of Canada. Toronto, Can.

- WILLIAM WERT HOWE, LL. D.,
*Professor of Ancient Law, of Roman Law, and of Medieval
 and Modern Civil Law,*
 Hennen Building, New Orleans, La.
- REV. ADONIRAM JUDSON HUNTINGTON, A. M., D. D.,
Emeritus Professor of Greek, 1010 N Street
- VIRGIL B. JACKSON, M. D.,
Assistant Demonstrator of Anatomy, 809 Thirteenth Street
- G. O. JAMES, Ph. D.,
Associate Professor of Applied Mathematics,
 Johns Hopkins University
- HENRY L. E. JOHNSON, M. D.,
Professor of Gynecology, 1821 Jefferson Place
- HENRY W. JOHNSON, D. D. S.,
Demonstrator in Charge of Dental Infirmary,
 623 Thirteenth Street
- JOSEPH FRENCH JOHNSON, A. B.,
Professor of Money, Credits, and Foreign Exchange,
 New York University
- WILLIAM G. JOHNSON, LL. M.,
Professor of Common Law Practice, 1827 Sixteenth Street
- W. DAWSON JOHNSTON, A. B.,
Professor of Bibliography and Bibliology,
 Library of Congress
- * WILLIAM W. JOHNSTON, M. D.,
*Professor of Theory and Practice of Medicine and Professor
 of Clinical Medicine,*
- FREDERICK C. JONES, M. S.,
Assistant in Chemistry, 946 F Street, S. W.
- CHARLES B. KERFER, D. D. S.,
Demonstrator in Charge of Dental Infirmary,
 316 Second Street, S. E.
- SETHORON KEY, M. D.,
Assistant Demonstrator of Normal Histology,
 1720 H Street
- ALBERT FREEMAN ARICANUS KING, A. M., M. D.,
*Professor of Obstetrics and the Diseases of Women and Chil-
 dren and Dean Emeritus of the Medical School,*
 1315 Massachusetts Avenue

OFFICERS OF INSTRUCTION AND ADMINISTRATION. xix

- HARRY KING, LL. B.,
Emeritus Professor of Drawing, 1356 Yale Street
- REV. E. N. KIRBY, A. B.,
Professor of Philosophy, 533 Florida Avenue
- MARTIN A. KNAFF, LL. D.,
Professor of Interstate Commerce Law, The Portland
- THEODORE F. LAIST, B. S.,
Professor of Architecture,
Office of Supervising Architect, U. S. Treasury
- JOHN B. LARNER, LL. D.,
Associate Justice of Court of Appeals, 1335 F Street
- GUY CARLETON LEE, Ph. D.,
Lecturer on Comparative Politics,
Johns Hopkins University, Baltimore, Md.
- FRANK LEECH, M. D.,
Demonstrator of Minor Surgery, 1715 Fourteenth Street
- JAMES HALL LEWIS, D. D. S.,
Dean of Dental School and Professor of Dental Prosthetics,
1023 Vermont Avenue
- THOMAS E. MCARDLE, A. M., M. D.,
Professor of Minor Surgery, 1120 Sixteenth Street
- ORMSBY MCHARG, D. C. L.,
Assistant Professor of Roman Law,
1534 Twenty-second Street
- R. E. B. MCKENNEY, Ph. D.,
Assistant Professor of Botany, Agricultural Department
- OSCAR A. M. MCKIMMIE, M. D.,
Examiner of Applicants for Matriculation in the Medical School, 1333 N Street
- CHARLES EVERETT McNABB, LL. M.,
Instructor in Business Law, 913 Westminster Street
- JULIUS MAILLET,
Assistant in French, 1839 Corcoran Street
- CHARLES FREDERICK MARVIN, M. E.,
Associate Professor of Meteorology, 1404 Binney Street
- OTIS TUTTON MASON, Ph. D., LL. D.,
Lecturer on Anthropology, 1751 P Street

- WILLIAM F. MATTINGLY, A. M., LL. D.,
*Professor of Practical Commercial Law and Chief Justice of
 Court of Appeals,* 1616 H Street
- WILLIAM A. MAURY, LL. D.,
*Professor of Common Law, Pleading, Federal Procedure,
 Evidence, and Insurance,* 1767 Massachusetts Avenue
- F. L. MASON, M. D.,
Assistant Demonstrator of Pathology, Children's Hospital
- H. S. MEDFORD, M. D.,
Instructor in Obstetrics, 138 C Street, N. E.
- GEORGE P. MERRILL, PH. D.,
Professor of Geology and Mineralogy,
 U. S. National Museum
- FRANK E. MILLIS, PH. D.,
Instructor in Astronomy, U. S. Naval Observatory
- FRANCIS P. MORGAN, A. B., M. D.,
*Assistant to the Chair of Materia Medica and Therapeutics, in
 Charge of the Pharmacy Laboratory,* 1739 P Street
- EDWARD E. MORSE, M. D.,
Demonstrator of Obstetrics, 1527 I Street
- JAMES HENRY MOSER,
Instructor in Water Colors, 1113 G Street
- EDWARD ADAMS MEIR, B. S.,
Assistant Professor of Drawing, 523 Florida Avenue
- CHARLES EDWARD MUNROE, PH. D.,
*Dean of the School of Graduate Studies and Professor of
 Chemistry,* 1729 Riggs Place
- CHARLES W. NEEDHAM, LL. D.,
*Dean of the Schools of Law, Professor of Common Law,
 Transportation, and Interstate Commerce Law, the History
 and Classification of Law, Equity Jurisprudence, Trusts,
 and Trades Unions,* 1428 Massachusetts Avenue
- R. E. NELSON, JR.,
Instructor in Civil Engineering, 1707 P Street
- JOHN B. NICHOLS, M. D.,
Professor of Normal Histology, 1331 N Street
- MISS A. G. ODELL,
Superintendent of the University Hospital, 1335 H Street

OFFICERS OF INSTRUCTION AND ADMINISTRATION. xxi

PERRY S. PEARSON, A. M.

*Assistant Librarian and Assistant to the Secretary, Schools of
Law, 1400 Rhode Island Avenue*

STANTON J. PERLLE, LL. D.,

Professor of Law of Partnership, Agency, and Bailments,
The Concord

ARTHUR PIERER, LL. M.,

Professor of the Law of Real Property and Lecturer in
Monte Carlo Went, 3014 N Street

W. F. R. PHILLIPS, M. D.,

Professor of Hygiene and Demonstrator of Anatomy,
1418 L Street

JOSIAH PIERCE, JR., A. M.,

Professor of Applied Geometry, 1325 Massachusetts Avenue

EDWARD B. POLLARD, PH. D.

Professor of Biblical Literature, 1751 P Street

D. W. PRENTISS, M. D.,

Demonstrator of Normal Histology, 1101 Fourteenth Street

HENDERSON PRESNELL.

Assistant Professor of Library Science, 112 Florida Avenue

HENRY A. PRUSSEY, B. S.,

Professor of Civil Engineering and Acting Professor of Applied Mathematics, 1331 Vermont Avenue

WALTER REED, M. D.

Professor of Bacteriology and Pathology.
1603 Nineteenth Street

L. H. REICHELDERFER, M. D.,

Instructor in Medicine, Garfield Hospital

CHARLES RUSSELL RICH, M. D., D. D., S.,

Demonstrator in Charge of Dental Instruction, 57 K Street

. HERBERT LOUIS RICE, M. S.

Professor of Astronomy, 2132 Thirty-fifth Street

A. B. RICHARDSON, M. D.,

Professor and Clinical Professor of Mental Diseases,
St. Elizabeth's

CHARLES WILLIAMSON RICHARDSON, M. D.

Professor of Liturgiology and Chirology, 1102 L Street

- EDWARD E. RICHARDSON, M. D.,
Professor to the Chair of Anatomy and Assistant Demonstrator,
 400 Seventh Street, S. W.
- CHANNING RUDD, LL. B.,
Professor of Oratory, Assistant Professor of the Origin, Classification, and Elements of Law, Librarian of the Law Library, and Secretary of the Schools of Law,
 1305 Rhode Island Avenue
- STERLING RUFFIN, M. D.,
Professor of Materia Medica and Therapeutics and Clinical Professor,
 1023 Vermont Avenue
- FRANK ROY RUTHER, PH. D.,
Lecturer on Economics, Department of Agriculture
- RAYMOND F. SAYER,
Instructor in Shades and Shadows and Perspective Drawing,
 404 A Street, S. E.
- HERMANN SCHOENFELD, PH. D.,
Professor of German and of Continental History,
 1337 Twenty-second Street
- EMIL A. DE SCHWEINITZ, PH. D., M. D.,
Dean of the Medical School and Professor of Chemistry and Toxicology,
 1023 Vermont Avenue
- EDWARD G. SEIBERT, M. D.,
Associate in Chemistry, in Charge of the Chemical Laboratory, Medical School,
 916 Fourteenth Street
- AURELIUS RIVES SHANDS, M. D.,
Professor of Orthopedic Surgery, 1319 New York Avenue
- D. KERFOOT SHUTE, A. B., M. D.,
Professor of Anatomy, Clinical Ophthalmology, and Neurology,
 1101 Thirteenth Street
- SAMUEL MOORE SHUTE, A. M., D. D.,
Emeritus Professor of English, Kerfoot, Virginia
- CHARLES S. SMITH, A. M.,
Assistant Professor of Greek and Latin, 2122 H Street
- AINSWORTH R. SPOFFORD, LL. D.,
Professor of Library Science, Library of Congress
- TIMOTHY W. STANTON, A. M., PH. D.,
Instructor in Paleontology and Stratigraphical Geology,
 54 S Street

OFFICERS OF INSTRUCTION AND ADMINISTRATION. xxiii

- JAMES MCBRIDE STERRETT, A. M., D. D.,
Professor of Intellectual and Moral Philosophy,
 Pierce Mill Road, D. C.
- GEORGE W. STONE,
Lecturer on Building Construction,
 Architect's Office, Treasury Department
- T. RITCHIE STONE, M. D.,
Clinical Professor of Genito-Urinary and Venereal Diseases,
 1345 F Street
- EDWARD H. STROBEL, LL. B.,
Lecturer on Jurisprudence of France and of Spain,
 Harvard University, Cambridge, Mass.
- CHARLES C. SWISHER, PH. D.,
Professor of History and Political Science, Cosmos Club
- HENRY CLAY THOMISON, D. D. S.,
Professor of Operative Dentistry, 118 E Street
- J. FORD THOMISON, M. D.,
Professor of Surgery, 804 Seventeenth Street
- ERNEST LAWTON THURSTON, C. E.,
Professor of Drawing, 1508 Kenesaw Avenue
- EDMUND LEE TOMPKINS, M. D.,
Professor of Nervous Diseases, 1512 Q Street
- WILLIAM H. TRAIL, D. D. S.,
Demonstrator in Charge of Dental Infirmary,
 612 Thirteenth Street
- MAYVILLE W. TWITCHELL, M. S.,
Instructor in Geology, Johns Hopkins University
- NORMAN UNDERWOOD,
Assistant in Chemistry, 1331 Whitney Avenue
- WILLIS VAN DEANER,
Professor of Equity Pleading and Practice,
 2108 Wyoming Avenue
- JOHN VAN RENSSLAER, A. B., M. D.,
Professor of Surgical Pathology and Professor of Clinical Surgery, 2 Thomas Circle
- SAMUEL WALLIS, A. M.,
Instructor in Chemistry, 1752 Corcoran Street
- R. WASHINGTON, M. D.,
Assistant Demonstrator of Anatomy,

- JOHN R. WELLINGTON, A. M., M. D.,
Lecturer in Surgery and Demonstrator of Minor Surgery,
 1706 Rhode Island Avenue
- MAX WEST, PH. D.,
Associate Professor of Economics, 2217 Fifteenth Street
- C. S. WHITE, M. D.,
Assistant Demonstrator of Anatomy, Assistant to Demonstrators of Pathology, and of Neurology and Histology, 1400 K Street
- WILLIAM ALLEN WHITUR, A. M.,
Professor of English, 1849 Riggs Place
- HARVEY WASHINGTON WILEY, PH. D., M. D.,
Professor of Agricultural Chemistry, 1314 Tenth Street
- HUGH WILLIAMS, A. M.,
Assistant Professor of Library Science, Library of Congress
- FRANK A. WOLFE, JR., PH. D.,
Professor of Physics and Electrical Engineering,
 1429 R Street
- SAMUEL WALLER WOODWARD,
Treasurer, 2015 Wyoming Avenue
- W. C. WOODWARD, LL. B., M. D.,
Professor of Medical Jurisprudence, 508 I Street
- CARROLL D. WRIGHT, LL. D.,
Professor of Statistics and Social Economics,
 1345 Vermont Avenue
- HENRY C. YARROW, M. D.,
Professor of Dermatology, 814 Seventeenth Street

COLUMBIAN COLLEGE.

THE FACULTY.

SAMUEL H. GREENE, D. D., LL. D.,

President pro tempore.

ADONIRAM J. HUNTINGTON, D. D.,

Emeritus Professor of Greek.

SAMUEL M. SHUTE, D. D.,

Emeritus Professor of English.

JAMES HOWARD GORE, PH. D.,

Professor of Mathematics and Secretary of the Faculty.

HOWARD L. HODGKINS, PH. D.,

Professor of Physics.

JAMES MACBRIDE STERRETT, A. M., D. D.,

Professor of Intellectual and Moral Philosophy.

CHARLES E. MUNROE, PH. D.,

Professor of Chemistry.

HERMANN SCHOENFELD, PH. D.,

Professor of Modern Languages.

EDWARD B. POLLARD, PH. D.,

Professor of Biblical Literature.

CHARLES C. SWISHER, PH. D.,

Professor of History and Political Science.

THE COLUMBIAN UNIVERSITY.

WILLIAM ALLEN WILBUR, A. M.,
Professor of English.

MITCHELL CARROLL, PH. D.,
Professor of Greek and Latin.

GEORGE N. HENNING, A. M.,
Professor of Romance Languages.

CHARLES S. SMITH, A. M.,
Assistant Professor of Greek and Latin.

STANDING COMMITTEES OF THE FACULTY.

Committee on Admission of Students
Professors WILBUR, SWISHER, and HENNING.

Committee on Degrees
Professors GORE, HODGKINS, and WILBUR.

COURSES OF INSTRUCTION.

The regular courses of instruction are comprised in twelve departments, as follows:

- I. BIBLICAL LITERATURE.
- II. CHEMISTRY: General, Inorganic and Organic Chemistry, Laboratory Practice, Qualitative and Quantitative Analysis.
- III. ECONOMICS AND POLITICAL SCIENCE.
- IV. ENGLISH: The English Language and Literature, Rhetoric and Composition.
- V. GERMANIC LANGUAGE AND LITERATURE.
- VI. GREEK: The Greek Language and Literature.
- VII. HISTORY AND POLITICAL SCIENCE.
- VIII. LATIN: The Latin Language and Literature.
- IX. MATHEMATICS: Pure Mathematics and Mechanics.
- X. PHILOSOPHY.
- XI. PHYSICS.
- XII. ROMANCE LANGUAGES: The French Language and Literature and the Spanish Language and Literature.

CORCORAN SCIENTIFIC SCHOOL.

All courses in the Corcoran Scientific School are open to regular students in the College under regulations stated on page 31.

PROVISIONAL SCHEDULE OF RECITATIONS FOR THE SESSION OF 1902-1903.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
Freshman.	9:15-10:10 Mathematics.	German (Ele.).	Mathematics.	Latin.	Mathematics.
	10:10-11-5 Physics.	(Physics, (Greek.	English Literature.	(Greek, (Physics.	Latin.
	11-08-12-00 Chemistry.	English.	Chemistry.	Chemistry.	French.
	12:30-1-25 French.	French (Ele.)	Latin.	German.	(Greek, (German (Ele.).
	1-25-2-20 French (Ele.)	German.	German.	English.	French (Ele.).
	2-20-3-15 Chemical Laboratory	French.	German (Ele.).	Chemical Laboratory	
	3-15-4-15 Chemical Laboratory			Chemical Laboratory	
Sophomore.	9:15-10:10 Latin.	English.	History.	French.	French.
	10:10-11-5 Physics (A. B.)	Physics (A. B.).	Mathematics.	Physics A. B.).	Physics.
	11-05-12-00 (Chemistry, (French.	Mathematics.	(Chemistry, (German.	(Chemistry, (German.	Latin.
	12:30-1-25 English.	German.	English.	(Greek, (Physics.	French.
	1-25-2-20 (Greek, (Physics.	Greek.		History.	Mathematics.
	2-20-3-15 Chemical Laboratory	History.	(Latin, (Chemical Labora tory.	Chemical Laboratory	
	3-15-4-15 Chemical Laboratory.		Chemical Laboratory	Chemical Laboratory	

Arrangements for classes not scheduled will be made upon application.

HOURS.	MONDAY.	TUESDAY.	WEDNESDAY.	THURSDAY.	FRIDAY.
JUNIOR.	9.15-10.10 { French { German. Latin. Psychology.	Psychology. Mathematics. French. { Greek. { Physics. Biblical Literature	German. Latin { Greek. { Physics. { Biblical Literature. Psychology. History.	English. Latin { English. { Politics. French. Biblical Literature { History { Chemical Labo- ratory. Chemical Laboratory	English; Politics. German; French { Mathematics Greek. { English. { Physics. { History. { Classical Archaeology.
	10.10-11.05 11.05-12.00 12.30- 1.25 1.25- 2.20 2.20- 3.15 3.15- 4.15		{ French. Biblical Literature Chemical Laboratory. Chemical Laboratory		
	{ Mathematics { Chemical Labo- ratory Chemical Laboratory	Biblical Literature	{ French. Biblical Literature Chemical Laboratory. Chemical Laboratory		
SENIOR.	9.15-10.10 10.10-11.05 11.05-12.00 12.30- 1.25 1.25- 2.20 2.20- 3.15 3.15- 4.15	Spanish. German. Ethics. { English. { Physics. { Greek. { Physics. { History. Biblical Literature	Political Economy. Greek; Physics. Latin { French. Biblical Literature { German. English. { Political Science Chemical Labo- ratory Mathematics. Chemical Labo- ratory.	Ethics. Mathematics. Political Economy. Spanish. { French. Greek. { Biblical Literature Chemical Laboratory. { History; Chemical Laboratory.	Latin English. German Physics; French. { Physics History { Classical Archaeology.

I.—BIBLICAL LITERATURE.

PROFESSOR POLLARD.

In this department the history, the contents, and literary forms of the Old and New Testaments are taught. The aim is not theological or dogmatic, but literary and historical, the student being guided into correct methods of Bible study and enabled to realize the cultural value of the Biblical classics.

The following courses were offered for the session 1901-1902:

1.3.4.* The Hebrew Prophets and Poets. A study of the national and religious ideas of Israel. [Two hours.

2.3.4. The Hebrew Language. A study of Hebrew Grammar and selected readings from the Hebrew Bible. Two hours.

3.3-4. New Testament Greek. Readings in the Gospels and Epistles, with reference not only to their contents, but also to the Hebraic influence upon the language, and the divergences of the Hellenistic Greek from classic usage. A working knowledge of classic Greek is presupposed.

It has been customary year by year to alternate New Testament with Old Testament courses, both in the literature and the history which is studied in connection with the literature.

II.—CHEMISTRY.

PROFESSOR MUNROE.

MR. OUTWATER, Student-Assistant.

21.1-2. General, Inorganic, and Organic Chemistry. Lectures and recitations. Students are required to work out problems and exercises in the preparation hours preceding lectures. Barker's Elementary Chemistry; Remsen's Organic Chemistry. Three hours.

* Decimals indicate the year in which the course is taken: Freshman, .1; Sophomore, .2; Junior, .3; Senior, .4. Courses open to Juniors and Seniors, .3-4.

† Unless otherwise stated, hours per week throughout the year.

23.1-2. Laboratory Practice. Laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Cooke's Laboratory Practice. Two periods.

23.2. Preparation of and Study of the Properties of Chemical Substances. Thorpe's Inorganic Chemical Preparations; Appleton's Easy Experiments of Organic Chemistry. Three periods.

24.3. Qualitative Analysis. Newth's Manual of Chemical Analysis. Three periods.

25.4. Quantitative Analysis. Newth's Manual of Chemical Analysis. Three periods.

Students must provide themselves in all the laboratory courses with note-books, towels, and the necessary equipment for work. Apparatus and material are supplied by the University.

III.—ECONOMICS AND POLITICAL SCIENCE.

Economics.

PROFESSOR STERRITT.

31.4. Political Economy, using as a text-book Bullock's Introduction to Economics, supplemented with studies in socialism, the labor question, and other current economic and social problems. Three hours.

Political Science.

PROFESSOR SWISHER.

35.3-4. (a) A study of the nature and development of Political Institutions. (b) A comparative study of Modern Governmental Institutions, especially those of the United States, England, France, Germany, and Switzerland: conducted with text-book lectures and reports. Two hours, first term.

36.3-4. A study of some modern questions of International Politics: the Eastern Question, the African Question, England in Egypt and the Far East. Lectures. Two hours, second term.

IV.—ENGLISH.

PROFESSOR WILBUR.

The purpose of Courses 41, 42, 43 is to discover by analysis principles of style, to form by practice a style based on these principles, and to trace the evolution of a standard of writing by a study of prose masterpieces. The purpose of Courses 44-48 is to give the student acquaintance with the great representative writers, and to cultivate power of appreciation and refinement of taste by a study of the best literature.

41.1. Practical Rhetoric. Text books: Genung's Practical Elements of Rhetoric; Genung's Handbook of Rhetorical Analysis. This course presupposes a knowledge of the elements of rhetoric. Two objects are contemplated: 1) a verification of rhetorical theories by the analysis of selections from the best writers, with definite, practical deductions to guide in criticism and composition; 2) the application of rhetorical rules in paragraph and theme writing. Two hours.

42.2. English Prose. A critical study of representative prose works in chronological order from the time of Elizabeth, tracing the development of prose style and literature. Three hours.

43.3.4. Composition. Handbook, Wendell's English Composition. Practice in various forms of discourse and studies in criticism. This is an advanced course in English composition. Essays are written weekly. These are exchanged, and the hour is used in writing criticisms upon them. Essays and criticisms are finally revised and returned. One hour.

44.1. The Literature of England. A lecture course, historical and critical. Members of the class will read Taine's History of English Literature. One hour.

45.3.4. The Literature of America. Studies in history and criticism. Students taking this course are expected to read widely in the literature of the periods studied. One hour.

46.3.4. Lyric Poetry. First half year, Elizabethan and Seventeenth Century Lyrics; second half year, Nineteenth Century Lyrics. (Not given in 1902-1903). Three hours.

47.3-4. The English Novel. Development of the Novel, with critical studies of selected works, including some of the best contemporary fiction (not given in 1901-1902). Three hours.

48.3-4. Shakespeare. A study of the tragedies and the last plays of Shakespeare. The Temple edition is recommended. Three hours.

49.3-4. Old English. Elementary course. (Text-books: Cook's First Book in Old English; Cook's Exercises in Old English.) The essentials of the grammar and reading of selections from Old English texts. Two hours.

V.—GERMANIC LANGUAGE AND LITERATURE.

PROFESSOR SCHOENFELD.

Instruction in this department has, as its primary object, a thorough knowledge of the grammar and familiarity with the literature and history, with such practice in conversation as shall serve as a stimulus in the furtherance of this object.

German grammar is studied during the first three years of the course, with its principles illustrated from the class readings and written exercises.

61.0-1. A preliminary course in grammar, narrative prose, the elements of German history, and select poems of the principal modern poets. Special stress is laid on exercises in composition. One classic (Schiller) is studied. The work done is equivalent to a two years' course in high schools and academies of good standing. Three hours.

62.1-2. The deeper aspects of grammar; accurate training in phonetics and translation into German; conversation; readings from the best German prosaists and poets; selected texts. Three hours.

63.2-3. Advanced course in German syntax; extensive translation into German; selected advanced prose; classical reading and literature; elements of German history. Three hours.

64.3-4. Study of the principal difficulties of the language; idioms; synonyms; German essays; literature of the second German Blüteperiode; German history and science; extensive reading from the classics. Three hours.

65 3.4. Elements of philology: survey of German literature and that of its relation to the other Germanic peoples; history of the old and the new German Empire; further classical reading in Lessing's *Nathan der Weise*, Goethe's *Iphigenia*, *Tasso*, and *Faust*; introduction into the *Nibelungen Lied* and the *German Saga*. Three hours.

VI.—GREEK AND CLASSICAL ARCHÆOLOGY.

Greek.

PROFESSOR CARROLL.

ASSISTANT PROFESSOR SMITH.

The aim of the instruction in this department is threefold: (1) to enable the student, by the mastery of vocabulary, inflections, syntax, and idiom, to read Greek with accuracy and readiness; (2) to cultivate literary sensibilities and habits of accurate expression through the study of the masterpieces of Greek literature; and (3) to give a clear insight into the life, genius, and achievements of the Greeks.

The following courses are offered:

81.1 Homer (*Odyssey*, Books V-VIII): Herodotus (Selections); Xenophon (*Hellenica*). Three hours.

82.2 Lysias (selected Orations): Demosthenes (*Olynthiacs* and *Philippics*): Euripides (*Alcestis* and *Medea*). Three hours.

83.3 Thucydides (Book VII); Æschylus (*Seven against Thebes*): Sophocles (*Antigone* and *Edipus Tyrannus*): Aristophanes (*The Frogs* or *The Birds*). Three hours.

84.4 Plato (*Apology*, *Crito*, selections from *Phædo* and other Dialogues): Elegiac, Iambic, and Lyric Poets (Selections); Theocritus, Bion, and Moschus (Selections). Lectures on the History of Greek Literature. Three hours.

Greek Prose Composition in Freshman, Sophomore, and Junior Classes.

ELEMENTARY GREEK.—This course is designed for non-Greek students who wish to acquire by extraordinary effort the ability

to read Attic prose. It is open to Freshmen as an elective, to other students as an optional course. To be given only if elected by three or more students in full standing. Three hours.

Classical Archaeology.

PROFESSOR CARROLL.

For a proper appreciation of the languages, literatures, and history of Greece and Rome, some knowledge of ancient life and arts is essential. To meet this need, the following cycle of courses in Classical Archaeology, extending over a period of three years, is offered. Each course consists of weekly lectures, illustrated by maps, plans, photographs, and lantern slides, supplemented by a prescribed course of reading and the preparation of papers on special topics. The work constitutes a one-hour elective for Juniors and Seniors, but the lectures are open to all students of the College.

91.3-4. Athens and Rome. A study of the history, topography, and monuments of the chief centers of ancient life. 1903-1904. One hour.

92.3-4. Private Life of the Greeks and Romans. A study of the ancient house, its architecture, furniture, and ornamentation; family life; education and amusements; dress, arms, and armor; religious festivals, rites, and ceremonies, and other aspects of Greek and Roman life. 1902-1903. One hour.

93.3-4. Introduction to Classical Archaeology. An elementary course in Greek and Roman architecture and sculpture and other branches of archaeology. 1901-1902. One hour.

In all these courses considerable use will be made of the illustrative material accessible in the Corcoran Gallery of Art, the Smithsonian Institution, and the Halls of the Ancients.

VII.—HISTORY.

PROFESSOR SWISHER.

The work in history in the Sophomore year embraces a careful survey of the more important facts of Mediæval History in their

relation of cause and effect. This course is designed almost exclusively as a preparation for the fuller election of the following years, in which it is sought to afford students the training in History necessary to an intelligent discharge of the duties of citizenship, the prosecution of political or professional studies, or the work of investigation and research in the School of Graduate Studies. The work is conducted by means of text-books, lectures, reading, and reports, in all of which the aim is to familiarize the student with original sources.

101.2. Epochs in Ancient and Medieval History. A general survey of the more important events with special reference to the evolution of Athenian democracy; Roman imperialism; the blending of Romanic and Teutonic institutions; the decline of the feudal system and the foundation of the modern states of Europe; the growth of the Papacy and its relation to the civil power through the period of the Protestant Revolution. Three hours.

102.3-4. Modern European and Contemporaneous History. The Treaty of Augsburg and events leading to the Catholic reaction; the absolute monarchy and the French Revolution; the period of reaction and final triumph of the constitutional principle through the unification of Italy and Germany; the present political situation in Europe. Three hours.

103.3-4. English Constitutional History. The Norman administrative system as modified by English institutions; the evolution of Parliament and the cabinet system based upon a comprehensive study of English history. Three hours, first term.

104.3-4. American Constitutional History. The history of the formation and development of Colonial government; Analysis of the Articles of Confederation and events leading up to the Convention of 1789; interpretation of the Constitution under the pressure of subsequent issues. Three hours, second term.

VIII.—LATIN.

PROFESSOR CARROLL.

ASSISTANT PROFESSOR SMITH.

The instruction in this department has in view (1) a thorough knowledge of the idiomatic forms and syntactical relations of the Latin Language; (2) an appreciation of the genius of the Roman people as set forth in their literature. The former is sought through careful translation into English at each recitation, and one exercise each week in Latin Prose; the latter through informal lectures, suggested by the text under discussion, on the origin and development of the different branches of literature, and on social and political life.

The following courses, subject to slight changes, are given:

121.1. Livy (Books 1 and XXI); Cicero (*de Senectute*). Three hours, first term.

122.1. Horace (*Odes* and *Epodes*); reading at sight from selected prose authors. Three hours, second term.

123.2. Selected Letters of Cicero and Pliny. Three hours, first term.

124.2. Horace (*Satires* and *Epistles*); Martial (selected *Epigrams*). Three hours, second term.

125.3. Tacitus (*Agricola*, *Germania*, *Dialogus de Oratoribus* and *Selections from the Annals*). Three hours, first term.

126.3. Plautus and Terence (selected Plays); Juvenal (the principal *Satires*). Three hours, first term.

127.4. Quintilian (Book XI); Catullus and the *Elegiac Poets*. Three hours, first term.

128.4. Lucretius; Vergil (*Ecllogues* and *Georgics*). Lectures on the History of Latin Literature. Three hours, second term.

Prose Composition in Freshman, Sophomore, and Junior classes.

IX.—MATHEMATICS.

PROFESSOR GORE.

In this department instruction is offered in twelve courses.

141.1. Solid Geometry; Gore's Plane and Solid Geometry. Three hours, for two months.

142.1. Algebra, including Determinants; Taylor's Algebra. Three hours, for three months.

143.1. Plane Trigonometry; Wells' Trigonometry. Three hours, for two months.

144.2. Spherical Trigonometry; Wells' Trigonometry. Three hours, for two months.

145.2. Analytic Geometry; Nichols' Analytic Geometry. Three hours, for four months.

146.2. Theory of Equations; Barton's Theory of Equations. Three hours, for two months.

147.3. Differential and Integral Calculus, Taylor. Three hours, for five months.

148.3. Differential Equations; lectures, notes by the professor. Three hours, for three months.

149.4. Theory of the Complex Variable; lectures with references to Darège and Forsyth. Two hours, for one term.

150.4. Elliptic Functions, Baker. Two hours, for one term.

Optional Courses.

151.4. Analytical Mechanics. One hour.

152.4. Theory of Probabilities, with Applications to Least Squares; lectures, notes by the professor. One hour.

In all of the above courses the text is supplemented by lectures and the principles emphasized by proposing for solution a large number of problems taken from the best European and

American authorities. While the disciplinary value of the study of mathematics is never lost sight of, emphasis is laid on the importance of its practical application.

X.—PHILOSOPHY.

PROFESSOR STERRETT.

The courses in this department are pursued in the two upper classes.

161.3. *Logic*. Jevons-Hill, *Elements of Logic*, is used as a text book. Three hours, for two months.

162.3. *Psychology*. The aim is to make this work a preparation for an intelligent study of *Ethics* and *Philosophy*. A careful study is made of the phenomena of intellect, feeling, and will as organic processes of the man developing into conscious universal relations. Dewey and Harris are used as hand books, with lectures, themes, and constant reference to the leading works on *Psychology*. Three hours, for three months.

163.3. *History of Philosophy*. (1.) The study of one or more of the chief epochs in the history of philosophy; the course of lectures is given with required study of text-books—Schwegler and Weber. (2.) The statement and discussion of the fundamental problems of philosophy. Three hours, for three months.

164.4. *History of Ethics*. A study of the chief ethical theories; the members of the class are required to study the text of Aristotle, Kant, Mill, and Spencer, and to hand in well-prepared abstracts of their systems. The class-room work is devoted to a critical exposition of these and other theories by means of lectures and discussions. Three hours, first term.

165.4. *Theory of Ethics*. A critical and constructive theory of *Ethics*. Text-book, 1901-1902, Paulsen's *System of Ethics*. A course of lectures is given on the fundamental postulates, concepts, and principles of Christian *Ethics*. This is followed by a six weeks' course on the *Philosophy of History*, or with a course on the *Philosophy of Education*. Three hours, second term.

Courses—Alternate and Elective.

166. Experimental Psychology. Lectures, with study of the method, scope, and most general results of Experimental Psychology. One hour, first term.

167. History of Ancient Philosophy. Lectures, with study of the text-book, and Zeller's History. Three hours, second term.

168. History of Modern Philosophy (alternating with course 167). Lectures, with study of the text of several systems and with reference to Falkenburg and Windelband. Three hours, second term.

169. Pedagogics. Lectures and text-book study of the History and Philosophy of Education. Painter and Rosenkranz. One hour, second term.

170. The Metaphysics of Ethics. Study of Green's Prolegomena to Ethics. One hour, second term.

An opportunity is given the students for *Seminary* work in either Ethics or Philosophy (one hour a week, in the afternoon), and for attendance on the course of papers and discussions before The Society for Philosophical Inquiry, meeting at the University every Tuesday afternoon. The program of the Society for the current year is the Philosophy of Aristotle.

XI.—PHYSICS.

PROFESSOR HODGKINS.

181.1-2. A recitation and lecture course on General Physics, embracing the fundamental principles of Mechanics, Sound, Heat, Light, and Electricity. The lectures are illustrated by experiments. Three hours.

182.2. An advanced course on General Physics. This is a theoretical and mathematical course, and it requires a thorough acquaintance with the phenomena of Physics. Three hours.

183.3. A course in Laboratory Physics. This course is designed both to familiarize the student with the ordinary methods of exact experimentation and to extend the knowledge of

the principles of Physics as gained in course 181. Lectures on physical theories and on laboratory methods are given from time to time. Topics for study and discussion are assigned to the whole class, and to different members of the class are assigned subjects upon which to prepare special reports. Three periods.

181.3.4. A lecture and laboratory course in Magnetism and Electricity. Three periods.

185.3.4. Light. A lecture and laboratory course, based on Preston's Theory of Light. Three periods.

186.3.4. Heat. A lecture and laboratory course, based on Preston's Theory of Heat. Three periods.

XII.—ROMANCE LANGUAGES.

PROFESSOR HENNING.

The aims of study in this department are to attain, in French, a thorough knowledge of modern grammar and of the principles of pronunciation; the ability to write correctly simple prose; the ability to translate difficult French accurately and idiomatically and to read it understandingly; an outline knowledge of philology and historical grammar; a general knowledge of literature and history, and a detailed knowledge of one or more particular fields of literature; in Spanish, a knowledge of grammar and the ability to translate accurately and to read understandingly ordinary Spanish.

French Language and Literature.

221.0-1. Grammar, translation, reading. Grandgent's Essentials of French Grammar. Nineteenth century history and fiction. 400-500 pages. Three hours.

222.1-2. Grammar, composition, translation, reading. Grandgent's Essentials of French Grammar. Grandgent's Selections for French Composition, Parts II and III. A. Dumas, fils, *le Quatrième d'assaut*; A. France, *Spleen de Bonheur*; Scribe, *le Supplément de Paris*; Mérimée, *Colomba*; Coppée, *le Pater*. (About 750 pages.) Three hours.

223.2.3. Composition. Grandgent's Composition, Parts IV, VI, VII. Translation, analysis of works read, collateral reading and reports thereon, lectures on literature, philology and history. General survey of French literature, seventeenth to nineteenth centuries: Corneille, Racine, Molière, Pascal, La Rochefoucauld, Voltaire, Rousseau, Beaumarchais, De Musset, Hugo, Balzac, G. Sand, etc. (About 1,500 pages.) Three hours.

This course, or its equivalent, is a necessary preparation for the following courses in French.

224.3.4. Fifteenth and sixteenth century literature. Philology. Reading, translation, linguistic study, lectures. An elementary knowledge of philology, such as may be obtained in course 223, is presupposed. Villon, Charles d'Orléans, Commines, Rabelais, Ronsard, Du Bellay, Montaigne, etc. (About 2,000 pages.) Three hours.

(Not given in 1902-1903. To be given in 1903-1904.)

225.3.4. Seventeenth century literature. Translation, collateral reading, and reports thereon, lectures; history, philosophy, criticism, fiction, drama, memoirs, letters, eloquence. Descartes, Pascal, La Rochefoucauld, La Bruyère, M^{me} de la Fayette, Corneille, Racine, Molière, St. Simon, M^{me} de Sévigné, Bossuet, etc. (About 3,000 pages.) Three hours.

(Not given in 1902-1903. To be given in 1904-1905.)

226.3.4. Eighteenth century literature. Translation, collateral reading, and reports thereon, lectures; history, philosophy, criticism, fiction, drama, poetry, letters. Le Sage, Marivaux, Montesquieu, Voltaire, Buffon, Diderot, Rousseau, Beaumarchais, Bernardin de St. Pierre, A. Chenier, etc. (About 3,000 pages.) Three hours.

(Given in 1902-1903. Not to be given in 1903-1904.)

227.3.4. Nineteenth century literature. Translation, collateral reading, and reports thereon, lectures; history, criticism, fiction, drama, lyric poetry. M^{me} de Staël, Chateaubriand, de Vigny, Hugo, de Musset, Lamartine, Balzac, Flaubert, Sainte-Beuve, Thiers, Taine, Leconte de Lisle, Verlaine, Loti, de Maupassant, etc. (About 3,000 pages.) Three hours.

Students electing courses 226 or 227 are advised to take also course 102, in the Department of History.

Students electing courses 224, 225, 226, and 227 need not necessarily take them in that order.

Spanish Language and Literature.

231.3-4. Grammar, translation, reading. Edgren's Elementary Spanish Grammar. De Haan's *Cuentos Modernos*; Valera, *El Pájaro verde*; Alarcón, *El Capatán Veneno*; Valdés, *José*.

CORCORAN SCIENTIFIC SCHOOL.

All courses in the Corcoran Scientific School are open to regular students in the College under regulations stated on page 31.

ADMISSION.

The College is open to young men and young women.

The session of 1902-1903 begins September 24, 1902.

Every applicant for admission is required to present a testimonial of good moral character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

I.

Admission to Courses Leading to Degrees.

Candidates for admission to the Freshman Class are examined in certain required books and subjects. Certificates, in lieu of any or all examinations, will be accepted (1) from schools whose work is attested by well-prepared students admitted to the College in previous years, and (2) from schools desiring cooperation with the College, that present evidence of affording adequate preparation in the required books and subjects. The chairman of the Committee on Admission of Students will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificate of the College Entrance Examination Board for the Middle States and Maryland will be accepted in so far as the subjects specified meet the requirements of the College.

The certificate of the Washington High Schools covering all the College requirements admits students without examination to the courses of the Freshman year.

The regular examination for admission to the Freshman Class is held in University Hall, southeast corner of Fifteenth and H streets, N. W., in May. A second examination is held at the beginning of the college year, in September. The following is the schedule for both examinations:

ORDER OF ENTRANCE EXAMINATIONS.

May 24 and September 20, 1902.

[Registration of applicants in room 14.....	\$ 30- 9 00]
Latin	9.00- 11.00
Plane Geometry.....	11.00- 1.00
Algebra <i>a</i>	2.00- 4.00

May 26 and September 22.

Greek; Physics; Chemistry; Advanced French or German.....	9.00- 11.00
History.....	11.00- 1.00
German.....	2.00- 4.00

May 27 and September 23.

Plane Trigonometry	9.00- 11.00
French.....	11.00- 1.00
English	2.00- 4.00

May 28 and September 24.

Algebra <i>b</i>	9.00- 11.00
Solid Geometry.....	11.00- 1.00

The College is prepared to appoint examinations in any city, or at any school where the number of applicants or the distance from Washington may warrant it. Correspondence on this subject should be addressed to the Dean of the University.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

Candidates for admission to the course leading to the degree of Bachelor of Arts are examined in English, Latin, Greek and

Roman History, French or German, Algebra (a), Plane Geometry, and in Greek or in three years' work in French and German.

Candidates for admission to the course leading to the degree of Bachelor of Science are examined in English, Algebra (a), Algebra (b), Plane Geometry, Solid Geometry, Plane Trigonometry, Physics and Chemistry, English and American History (or Greek and Roman), and in two of the following languages: French, German, Latin.

Requirements for admission to the several departments are as follows:

English.

Candidates are expected to be familiar with the elements of Rhetoric, and no candidate will be accepted whose work is obviously defective in spelling, punctuation, idiom, or division into paragraphs.

The examination in English consists of two parts, one to test general reading, the other to show the results of more careful study and practice.

1. *Reading and Penmanship.*—The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number—perhaps ten or fifteen—set before him in the examination paper. The candidate should read all the prescribed books, but knowledge of them will be regarded as less important than ability to write English. In place of a part or the whole of this test, the candidate may present an exercise-book, properly certified by his instructor, containing compositions or other written work.

The books set for this part of the examination are:

1902: George Eliot's *Silas Marner*; Pope's Translation of the *Iliad*, Books i, vi, xvii, and xiv; The Sir Roger de Coverley Papers in the *Spectator*; Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Shakespeare's *The Merchant of Venice*; Cooper's *The Last of the Mohicans*; Tennyson's *The Princess*; Coleridge's *The Rime of the Ancient Mariner*; Lowell's *The Vision of Sir Launfal*.

1903 to 1905: Shakespeare's *Merchant of Venice* and *Julius Cæsar*; The Sir Roger de Coverley Papers in the *Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Rime of*

the Ancient Mariner; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

2. *Study and Practice*—This part of the examination requires a more careful study of each of the works named. It involves knowledge of the subject-matter, literary form, grammatical and logical structure.

The books set for this part of the examination are:

1902 to 1905: Shakespeare's *Macbeth*; Milton's *L'Allegro*, *Il Penseroso*, *Comus*, and *Lycidas*; Burke's *Speech on Conciliation with America*; Macaulay's *Essays on Milton and Addison*.

Greek.

1. Goodwin's or Hadley's *Greek Grammar*.
2. Goodwin's *Greek Reader* or Xenophon's *Anabasis*, Books 1-4.
3. First three books of Homer's *Iliad*.
4. Jones' *Greek Prose Composition*.

Applicants for admission to the Freshman Class are expected to be thoroughly acquainted with the principal topics of the *Greek Grammar* of Goodwin or of Allen's *Hadley*, including the *Derivation and Composition of Words*, *Accent*, and the elements of *Prosody*, especially the construction of *Dactylic Hexameter*.

They will be required to translate into good English two or three passages of the prescribed portions of Homer, and also of Xenophon, and to show a familiarity with the grammatical forms and constructions included, or with others which might be used instead.

They will be expected to translate at sight selections from one of the other books of the *Iliad* and of the *Anabasis*.

They will also be expected to translate English sentences in connected discourse into idiomatic Greek, with the proper accents and with the mention of other construction which might be used.

Latin.

Candidates are expected to have taken a systematic course in Latin: to have had training in translating English into Latin

throughout the course, and during the last half, at least, the translation of connected English prose.

It is expected that the following work, barring slight variations, will have been done:

1. Beginner's Book and 30 to 40 pages of easy Latin.
2. Four books of Caesar, Nepos.
3. Cicero: Catiline Orations, pro Archia, and pro Milone, or its equivalent.
4. First six books of Virgil's *Æneid*.

The examination will be in two parts:

1. Translation of passages selected from the work above outlined and a short passage of prose to be read at sight. The translation must be into idiomatic English. To attain facility in this, frequent written translations during the years of preparation are advisable.

2. The examination in Grammar and Composition for 1902 will be based on the first three orations of Cicero against Catiline. A thorough test of form and syntax will be given. The composition will be connected English based on this vocabulary, and it will contain no construction not found in these orations.

French.

1. Students offering one year of French must have a good knowledge of the more essential parts of grammar, with stress on pronouns and on regular verbs and the common irregular verbs; they must know the principles of pronunciation; must be able to translate simple English sentences into French, and to translate accurately ordinary modern French prose. The examination presupposes an eight months' course of four periods per week. Candidates should have translated not less than 300 duodecimo pages by at least three different authors, of which amount at least one-third should be history.

2. Students offering two years of French must have in addition a good knowledge of the remaining grammatical forms and of syntactical difficulties; they must be able to translate into French ordinary connected English prose, and to translate accurately and idiomatically difficult modern French. The examination presupposes two years' study of eight months each, four periods per week. Candidates should have partly trans-

lated and partly read, in addition to (1), at least 450 pages of several different authors, including history, fiction, drama, and some poetry.

(3) Students offering three years of French must be able to translate into French fairly difficult English prose; they must be able to translate accurately and idiomatically any French prose except technical works, and verse from 1635, and must have an outline knowledge of French literature and history from 1635. The use of a good manual of French literature is recommended. Candidates should have partly read and partly translated, in addition to (2), at least 700 pages of 17th, 18th, and 19th century prose and verse, including fiction, history, drama, lyric poetry, and philosophy or criticism.

(4) Students offering four years of French must be able to write original compositions in French with considerable fluency and correctness; must be able to translate as in (3), and must have, in addition to the knowledge of history and literature described in (3), a somewhat detailed knowledge of the literature and history of either the 17th, the 18th, or the 19th century. Candidates should have partly translated and partly read, in addition to (3), at least 1000 pages of standard works of the century selected for study, in the fields indicated in (3).

German.

Preliminary work in German will be accredited on the basis of one, two, three, or four years' study of four periods per week.

(1.) Students offering one year of German must have a good knowledge of an elementary German grammar, preferably Otis; about 150 pages of easy prose, and 50 pages of easy poetry. They will be required to translate some twelve or fifteen sentences from English into German, to show the accuracy of their knowledge of the elements of grammar.

(2.) Students offering two years of German must have a deeper knowledge of the grammar and of the principal syntactical laws of the language. Joynes-Meissner or Thomas' Grammar (Part I) will give sufficient preparation. A written examination in German composition and the writing of an easy theme in German will be required; also sight reading of narrative prose,

based on the completion of a reader, and two prose books like Storm's *Immensee* and Anderson's *Bildertisch oder Bilder*. Special stress is laid throughout upon a good pronunciation.

3. Students offering three years of German. Translation at sight from modern German prose, three books: Rehl, *Der Fench der Schönheit*; Freytag, *Aus der Stadt Friedrichs des Grossen*; Heine's *Die Harzreise*. Poetry, Schiller's *Wallenstein* and *Das Lied von der Glocke*; 50 pages of lyrics and ballads. German composition and an easy essay in German.

4. Students offering four years of German: Thomas' German Grammar (Part II); Freytag (one novel); Lessing, *Minna von Barnhelm*; Schiller, two dramas (left to the choice of the candidate) and the foremost ballads; Goethe's *Goetz von Berlichingen* and ten of his foremost poems. This examination will admit the successful candidate to the Sophomore class.

History.

Greek History, through the Roman Conquest, as much as is contained in Myers' History of Greece.

Roman History, as much as is contained in Allen's History of the Roman People.

English History, as much as is contained in Larned's History of England.

American History, as much as is contained in Fiske's History of the United States.

Mathematics.

Algebra *a*. Factoring, fractions, equations of the first degree, with one or more unknown quantities, solution of problems, inequalities, powers and roots, reduction of radicals, quadratic equations.

Algebra *b*. Quadratic equations, ratio and proportion, progressions, permutations, and combinations, binomial theorem, undetermined coefficients.

Plane Geometry. Demonstrations, constructions, computation of areas.

Solid Geometry. Demonstrations, computation of surfaces and volumes.

Plane Trigonometry, including the solution of trigonometric equations.

Physics.

Candidates must show an acquaintance with the more important phenomena of physics, and with the principles involved in the explanation of them. They must be able to solve simple numerical problems, and must understand the metric system. Gage's Introduction to Physical Science or Carhart and Chute's Physics will give suitable preparation, if supplemented by laboratory work. The laboratory note-book must be shown at the time of their examination. One year's study, five periods per week, will probably give the preparation needed; but in any case the entire subject, as treated in a book of the grade indicated above, must be completed.

Chemistry.

Elementary Chemistry. Storer's and Lindsay's Manual of Chemistry will give suitable preparation. This requirement presupposes a systematic course of two hours of class-room exercises and three hours of laboratory work per week for a period of eight months.

II.

Admission to Special Courses.

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates are examined in each special study by the head of the department. They must be familiar with the subjects preliminary to the studies which they wish to pursue.

Every student pursuing such a course, if under the age of twenty-one years, is required to include in the selections *not less than three distinct departments, with at least twelve recitations or lectures a week*. The choice of studies embraced in a special course must be made immediately upon the commencement of a term, and no student, without permission of the Faculty, may make a new choice of studies during any single term.

No one is admitted as a special student who has within four months of the time of his application been rejected by the Committee on Admissions as a regular student, or has within that time become deficient as a regular student.

III.

Admission to Advanced Standing.

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued elsewhere.

DEGREES.

The degree of Bachelor of Arts or Bachelor of Science is conferred on students who complete the appropriate course of study as outlined below.

Courses of graduate study leading respectively to the degrees of Master of Arts and of Doctor of Philosophy are described under the head of the "School of Graduate Studies" in this Catalogue.

Course of Study Leading to the Degree of Bachelor of Arts.

(The figures refer to the numbers of the courses in the several departments of the College, as previously described.)

FRESHMAN YEAR.

Two of the following:

English, 41, 44.	Greek.
Latin, 121, 122.	French.
Mathematics, 141, 142, 143.	German.

SOPHOMORE YEAR.

Five of the following courses:

English, 42.	(French.
Greek, 82, 83.	(German.
Latin, 123, 124.	(Chemistry, 21, 22; or
History, 101.	(Physics, 181.

JUNIOR YEAR.

(Greek, 84; or	Philosophy, 161, 162, 163.
(Latin, 125, 126.	
Elective, 9 hours a week.	

SENIOR YEAR.

Elective, 15 hours a week.

Course of Study Leading to the Degree of Bachelor of Science.

FRESHMAN YEAR.

English, 41, 44
Chemistry, 21, 22
Physics, 181.

Two of the following:

French.
German.
Latin, 121, 122.

SOPHOMORE YEAR.

(French or
(German.

Mathematics, 144, 145, 146.

History, 101.
Chemistry, 23.
Physics, 182.

JUNIOR YEAR.

Mathematics, 147, 148.

Elective, 9 hours a week.

(Chemistry, 24; or
(Physics, 183.

SENIOR YEAR.

Elective, 15 hours a week.

EXAMINATIONS.

At the end of each term examinations are held in studies of that term.

The results of the term examinations are combined with those of the daily recitations of the student during the term in order to ascertain his academic standing at the end of that term. Account is also taken of attendance.

A student who fails to pass a satisfactory examination in any study at the end of a College term must present himself for re-examination in that study, and failing to do so shall forfeit promotion with his class in that department.

All examinations which occur at the end of a College term are conducted in writing. Examinations for degrees are concluded three weeks before the date of the Annual Commencement. In order to graduate, students must obtain at least 75 per cent. in the final examinations on all of the subjects.

Examinations for prizes are concluded three weeks before the end of each academic year.

ANNUAL PRIZES.

Besides the honors and degrees conferred in the regular course, prizes are annually offered as rewards for special excellence.

The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D. D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL. D., consist of two gold medals, annually awarded to the best two scholars in Pure and Applied Mathematics.

Professor Munroe offers a gold medal to that student from any Washington High School who shall attain the highest mark in Chemistry among those passing the entrance examinations, and shall remain in regular attendance in the College for one year.

The Class of '96 James Macbride Sterrett, Jr., Memorial Medal is annually awarded to that member of the Sophomore Physics Class who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic. Only candidates for degrees may compete.

The Davis Prizes, for excellence in Composition and Elocution, founded by the Hon. Isaac Davis, LL. D., of Massachusetts, consist of two gold medals, annually awarded to the two successful competitors in a public contest. Senior students pursuing regular courses of study are eligible to compete for these prizes.

Prizes in American History, founded by the Daughters of the American Revolution of the District of Columbia: Two gold medals, to be awarded annually to the two students in the graduating class who, having maintained a high standing in the regular courses in History during three years, shall produce the best essays upon an assigned topic of American history.

The Thomas F. Walsh Prize in Irish History: A gold medal, to be awarded to that student in the graduating class who, having maintained a high standing in the regular courses of History in the College, shall produce the best essay based upon the study of some period of Irish history.

The E. K. Cutter Prize in English: a prize founded by the late Marion Kendall Cutter. The endowment is a fund of one thousand dollars, the income of which is given annually as a prize "for excellence in the study of English." The prize will be awarded to that member of the graduating class whose record in the department of English, combined with general excellence, shows singular evidence of aptitude and attainment in English studies. The award is made by the Dean of the College, the Secretary of the Faculty, and the Professor of English.

PRIZE AWARDS, 1901.

Staughton Prize, Sarah Phebe Lynch.
 Elton Prize, Sarah Phebe Lynch.
 Class of '96 James Macbride Sterrett, Jr., Memorial Medal,
 Douglas B. Sterrett.
 Davis Prizes, Boynton McConnell Leach, Flora Warren Smith.
 D. A. R. Prizes, Evelyn Estelle Knight, Florence Elizabeth
 Frisby.
 Prizes given by the Enosinian Society:
 Gore Prize in Parliamentary Law, Charles W. Main.
 Debater's Prize, John Warren Matson.

ANNUAL COMMENCEMENT.

The Annual Commencement is held on the Wednesday nearest the first of June.

All the degrees of the College are publicly conferred on Commencement Day.

Prizes for special excellence in any department, are publicly delivered on the same day.

PUBLIC WORSHIP.

Brief devotional exercises are held in the Hall of the University on every week day except Saturday, at 9 o'clock a. m. All students are expected to attend these services.

THE LIBRARY.

The Library is open every day from 9.15 a. m. until 10 o'clock p. m. The reading-room is supplied with the most important magazines and reviews.

UNIVERSITY LECTURES.

Students of the College are admitted without further fee to the University Lectures; and, when qualified to profit by them, they may secure admission to other lectures given in the Hall of the University by applying to the Dean.

DAVIS PRIZE SPEAKING.

The Davis Prize Speaking is held annually in the Hall of the University on the day before the Easter holidays. The Davis Prizes are offered under the following conditions:

The competition is restricted to members of the Senior Class pursuing regular courses of study. Two prizes of equal value are offered—one to young men presenting original orations, and one to young women presenting original essays. Students wishing to enter the competition should report to the Professor of English not later than five weeks before the contest, and submit their orations or essays not later than three weeks before the contest. The prizes are awarded by a committee consisting of three members—one selected by the Faculty of the College, and one by each of the two classes of contestants.

SCIENTIFIC SCHOOL COURSES.

Full-course students paying the regular fee in the College will be permitted to take courses in the Scientific School without the payment of additional fees, except the usual laboratory fees, provided the total number of periods do not exceed twenty per week, and provided that such selection of courses be approved by the Faculty of the College and the Dean of the Scientific School.

ORATORY.

Registered students in the College will be admitted to the special course in oratory in the School of Law on the recommendation of the Dean of the College and with the approval of the Dean of the School of Comparative Jurisprudence and Diplomacy. A special fee of fifteen dollars is charged for this course.

LITERARY SOCIETY.

The Enosinian Society, a literary association formed by the students of the College, meets weekly for the purpose of improvement in Debate and Composition. Prizes are given to the two students showing the greatest proficiency in Debate and in Parliamentary Law.

THE CLASSICAL CLUB.

The Classical Club, composed of graduates and advanced students in the Departments of Greek and Latin, is organized for the study of such phases of ancient life, literature, and art as cannot be properly treated in the class-room. The Club meets once a month for the treatment of assigned topics, discussion of papers, and reports on philological journals. During the previous sessions the following themes have been subjects of study: Greek Temples in Italy and Sicily, the Roman Forum, Pompeii—its art and its monuments, and the Lyric Poets of Greece and Rome.

GENERAL REGULATIONS.

Every student on entering the College is understood by that act to pledge a voluntary acquiescence in the rules and regulations prescribed by the Board of Trustees and by the Faculty acting under the authority of the Board.

A report of the student's standing in all studies will be rendered to parents or guardians at the end of each term.

The schedule of recitations is arranged to meet the require-

ments of the curriculum, and no choice of studies that involves conflicts in recitation periods will be permitted.

Electives in the Junior and Senior years to be credited for a degree must be chosen from Junior or Senior subjects.

No student who is a candidate for a degree may, without special permission of the Faculty, take more than six hours a week in one academic year in any one department.

No student is permitted to take more than eighteen recitation or laboratory periods a week, except by special permission of the Faculty, and no student, without permission of the Faculty, may make a new choice of studies during any single term.

EXPENSES.

Matriculation fee (paid but once, on entrance).....	\$10 00
Tuition for the year in three or more departments.....	100 00
Tuition for the year in two departments.....	70 00
Tuition for the year in one department.....	40 00
Materials for laboratory courses in Chemistry, each course.....	10 00
Final Diploma Fee.....	10 00

These charges cover all expenses except those incurred through breakage or damage of apparatus, tools, instruments, furniture, or buildings.

Bills are payable semi-annually, in advance.

Students proposing to withdraw from the College will inform the Registrar to that effect. In the absence of such notification, no claims for exemption from fees will be allowed.

SCHOLARSHIPS.

The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that student from any of the Washington High Schools who attains the highest average in the May entrance examinations. This scholarship continues throughout the College course, and students on this foundation pay semi-annually, in advance, a fee of eight dollars, and the matriculation fee (paid but once, on entrance), of ten dollars.

The University offers also six scholarships, each running for four years, to be awarded annually to members of the graduating classes of the High Schools of Washington. The scholarships will be divided among the several High Schools in proportion to the number of students in attendance upon each; three scholarships are offered to young men and three to young women. No scholarship will be awarded to a candidate whose examination average is below 80 per cent. Candidates for these scholarships will take the May entrance examinations for the College course leading to the degree of A. B., or the degree of B. S., as they shall elect, and on the results of these examinations the scholarships will be assigned. Holders of these scholarships pay semiannually, in advance, a fee of eight dollars, and the matriculation fee paid but once, on entrance, of ten dollars; and they will be expected to pursue a regular course, classical or scientific, leading to a degree.

The Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. (For conditions under which these scholarships are assigned, see page 95 of this Catalogue.) The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

Scholarships are available, under special regulations, for graduates of the following schools:

City College, Baltimore, Md.; Boys' Latin School, Baltimore, Md.; Charlotte Hall School, Charlotte Hall, Md.; West Nottingham Academy, Colton, Md.; Frederick College, Frederick, Md.; Rockville Academy, Rockville, Md.; Episcopal High School, Alexandria, Va.; Danville Military Institute, Danville, Va.; Staunton Military Academy, Staunton, Va.

ROOMS AND BOARD.

Desirable rooms, convenient to the University buildings, are obtainable at prices ranging from \$5 to \$15 per month, and good board is offered at from \$15 to \$20 per month. A list of eligible

boarding-houses will, upon request, be furnished by the Registrar of the University.

For further information concerning Columbian College, application may be made to

HOWARD L. HODGKINS,

Dean of the University.

STUDENTS IN COLUMBIAN COLLEGE.

Candidates for Degrees.

Name	State	Address
Alden, L. Russell	D. C.	809 I St.
Ames, Gladys	D. C.	1701 21st St.
Balentine, Susan Louise	Ohio	922 15th St.
Beale, Helen Margretta	D. C.	1820 Kalorama Ave.
Bradshaw, Henry	D. C.	901 C St., N. E.
Brannigan, Robert Allan	D. C.	1481 Columbia Rd.
Bryson, Herbert James	Pa.	714 12th St., N. E.
Burt, Nelle Kathryn	Pa.	710 19th St.
Canton, Alfredo G.	Mexico	3043 P St.
Clark, Bertha Winfred	D. C.	457 M St.
Cobb, Lydia Aurelia	Pa.	641 B St., N. E.
De Forest, Augusta Moulton	Kans.	1222 B St., N. E.
Evans, Lola May	D. C.	2227 13th St.
Fleming, W. H. Irwin	Va.	1763 Madison St.
Ford, John	D. C.	312 2d St., S. E.
Ford, Mary Elizabeth	D. C.	312 2d St., S. E.
Foster, Norman Percy	D. C.	3000 13th St.
Fulton, Horace M.	D. C.	1211 Vermont Ave.
Godfrey, Fred. Earle	D. C.	Brookland, D. C.
Havener, Frank Roberts	D. C.	3130 O St.
Homrighaus, Albert Holle	D. C.	508 P St.
Jones, John Marshall	Va.	Alexandria, Va.
Lamb, James Ewin	D. C.	1322 I St.
Mason, Anita Dorsey	Va.	1827 H St.
Maynard, Henry Warner	D. C.	1407 15th St.
McCoy, Marion Elizabeth	S. D.	1016 D St., N. E.
McCullough, Max	Ill.	406 11th St., N. E.
McGroarty, Lucina Frances	Ala.	123 5th St., N. E.
McIlhenny, Catherine V.	Ga.	2114 Conn. Ave.
McPherson, Maud Esther	D. C.	1250 Princeton St.
McVea, Emelie W.	D. C.	1443 Mass. Ave.
Merritt, Ella Arvilla	Minn.	151 F St., S. E.
O'Bryon, George Elmer	N. Y.	1813 F St.
Outwater, Raymond	D. C.	1312 B St., S. W.
Peek, Paul Noble	D. C.	1102 P St.

Name.	State.	Address.
Potter, Van Albert	D. C.	219 C St., N. E.
Powers, Lorin C.	D. C.	3007 15th St.
Richards, L. Adolph	Va.	807 12th St.
Ridout, Edith Hieskell	D. C.	1748 N St.
Shallenberger, Josephine P.	D. C.	906 E. Cap. St.
Sherman, Caroline Baldwin	Va.	1423 8th St.
Showalter, M. Genevieve	Pa.	1523 N. H. Ave.
Solyom, Herbert Louis	Md.	Tennallytown, D. C.
Sperry, Paul	Ohio	321 Del. Ave., N. E.
Stair, J. Urban	Wis.	1251 M St., N. E.
Sterrett, Douglas Boyard	D. C.	1023 15th St.
Strong, Shepard	N. H.	1539 I St.
Suit, Florence Eugenia	Md.	218 3d St., S. E.
Turner, M. Elsie	D. C.	414 B St., N. E.
Wilson, Mary Huston	D. C.	516 M St.

Spemil.

Ashford, Mahlon	D. C.	1763 P St.
Beale, Carroll	D. C.	3132 P St.
Behrend, Nellie H.	D. C.	412 H St.
Dale, Christine	Ark.	945 M St.
Ph. B., Arkadelphia College		
Davis, George Henry	Mass.	1737 De Sales St.
Dawson, Edward M., Jr.	D. C.	1752 S St.
Day, Herbert E.	D. C.	Kendall Green.
Ph. B., Brown University		
A. M., Government College		
A. M., Comm. Univ. University		
Deis, John Homer	D. C.	1023 15th St.
Dodge, Olive V. P.	D. C.	141 1st St., N. E.
Fay, Allan Bradshaw	D. C.	Kendall Green.
A. B., A. M., Harvard University		
Gallagher, Ethel L.	D. C.	1146 N. Cap. St.
Glass, Roy Chester	D. C.	1524 Columbia St.
Hager, Frank L.	Ohio	513 4th St.
Hardester, David	D. C.	529 12th St., S. E.
Heilprin, Frances	D. C.	926 B St., S. W.
Hines, William Henry	Maine	1012 I St.
Holer, Pauline Elizabeth	D. C.	805 N St.
Hunt, Julia H.	D. C.	1815 N St.

Name	State	Address
Hyde, Elizabeth Peirson	Me	1881 3d St.
Klawans, Samuel T.	Md.	818 H St., N. E.
Manning, Christian Arthur	Pa	18 2d St., N. E.
Mercer, Kathleen C.	Va	Falls Church, Va.
Merry, Agnes M.	D. C.	1248 Kearsaw Ave.
Musgrave, T. Gebel	D. C.	1328 N. Y. Ave.
Pearson, Perry S.	Ga.	1409 N. Y. Ave.
A. B., Mercer University.		
A. M., Georgetown University.		
Pistorio, Irene Mabel	D. C.	626 B St., S. W.
Robinson, Nathaniel E., Jr.	D. C.	Brightwood, D. C.
A. B., Columbian University.		
Samuels, Henry E.	D. C.	210 N. J. Ave.
Sanderlin, Georgia	D. C.	1008 N St.
A. B., Columbian University.		
Sanders, Mary	Ind.	1002 11th St.
Seltzer, Charles W.	Pa	445 5th St., N. E.
Slater, Alice Faucett	D. C.	2200 Q St.
Thompson, Amy Green	D. C.	1718 Oregon Ave.
Thorburn, Helen Mary	Tenn	1504 15th St.
Torres, Louis P.	Philip. Is.	821 15th St.
Travis, Gideon B.	Mich	733 6th St.
Trickey, Corridon J. H.	D. C.	1907 L St.
Tripp, James Orlando	Ohio	1131 5th St.
Ward, A. Norman	D. C.	611 N. C. Ave., S. E.
A. B., Western Maryland College.		
A. M., Southern University.		
Watson, Richard Furman	S. C.	1010 N St.
A. B., Furman University.		
Watts, George Alfred	D. C.	412 2d St.
Watts, John Ogden	D. C.	412 2d St.
Way, Lyle Floyd	Ohio	1523 1st St.
Wellman, Ruth Elisabeth	D. C.	1409 21st St.
Wilson, Clara Elva	N. Y.	612 M St.
Wood, Otis Hunter	D. C.	1100 Conn. Ave.

Total 96

CORCORAN SCIENTIFIC SCHOOL.

THE FACULTY.

REV. SAMUEL H. GREENE, D. D., LL. D.,

President pro tempore.

HOWARD L. HODGKINS, Ph. D.,

Dean.

Professor of Mathematics.

CHARLES E. MUNROE, Ph. D.,

Professor of Chemistry.

REV. SAMUEL M. SHUTE, D. D.,

Emeritus Professor of English.

JAMES HOWARD GORE, Ph. D.,

Professor of Geodesy.

CLEVELAND ABBE, A. M., LL. D.,

Professor of Meteorology.

HERMANN SCHOENFELD, Ph. D.,

Professor of German.

HARRY KING, LL. B.,

Emeritus Professor of Drawing.

GEORGE P. MERRILL, Ph. D.,

Professor of Geology and Mineralogy.

JOSIAH PIERCE, JR., A. M.,

Professor of Applied Geometry.

ANDREW F. CRAVEN, Ph. D.,

Professor of Politics and Economics.

THE COLUMBIAN UNIVERSITY.

EDWARD FARQUHAR, Ph. D.,
Professor of History.

FRANK A. WOLFF, Ph. D.,
Professor of Physics and Electrical Engineering.

C. F. MARVIN, M. E.,
Associate Professor of Meteorology.

EDWARD B. POLLARD, Ph. D.,
Professor of Biblical Literature.

WILLIAM ALLEN WILBUR, A. M.,
Professor of English, and Secretary of the Faculty.

AINSWORTH R. SPOFFORD, LL. D.,
Professor of Library Science.

HERBERT L. RICE, M. S.,
Professor of Astronomy.

*GUSTAV AYRES, M. E.,
Professor of Mechanical Engineering.

THEODORE F. LAIST, B. S.,
Professor of Architecture.

MITCHELL CARROLL, Ph. D.,
Professor of Latin.

HENRY A. PRESSEY, B. S.,
Professor of Civil Engineering and Acting Professor of Applied
Mathematics.

ERNEST L. THURSTON, C. E.,
Professor of Drawing.

REV. EDWARD N. KIRBY, A. B.,
Professor of Philosophy.

* Resigned February 1, 1902.

PAUL, BARTSCH, B. S.,
Professor of Zoology.

GEORGE N. HENNING, A. M.,
Professor of Romance Languages.

WILBUR F. DALES, Ph. D.,
Assistant Professor of Latin and Greek.

HENDERSON PRESNELL,
Assistant Professor of Library Science.

EDWARD A. MUIR, B. S.,
Assistant Professor of Drawing.

HUGH WILLIAMS, A. M.,
Assistant Professor of Library Science.

R. E. B. MCKENNEY, Ph. D.,
Assistant Professor of Botany.

WILLIAM P. CUTTER, B. S.,
Assistant Professor of Library Science.

INSTRUCTORS AND ASSISTANTS.

T. W. STANTON, Ph. D.,
Instructor in Paleontology and Stratigraphical Geology.

H. GRANT HODGKINS, A. B.,
Instructor in Mathematics.

CHARLES E. McNABB, LL. M.,
Instructor in Business Law.

RAYMOND SAYER,
Instructor in Shades and Shadows and in Perspective.

FAIRFAX BAYARD, C. E.,
Instructor in Applied Mathematics.

THE COLUMBIAN UNIVERSITY.

N. MONROE HOPKINS, M. S.,

Instructor in Chemistry.

MAYVILLE W. TWITCHELL, M. S.,

Instructor in Geology.

F. E. MILLIS, Ph. D.,

Instructor in Astronomy.

EDWARD WILTON DONN, Jr., B. S.,

Instructor in Pen-and-ink Rendering.

C. S. J. DUNBAR,

Instructor in Freehand Drawing.

JAMES HENRY MOSER,

Instructor in Water Colors.

BERNARD HERMAN, B. S.,

Instructor in Civil Engineering.

SAMUEL WALLIS, A. M.,

Instructor in Chemistry.

R. E. NELSON, Jr.,

Instructor in Civil Engineering.

E. A. HOURWICH, Ph. D.,

Instructor in Statistics.

LOUIS A. FISCHER,

Instructor in Laboratory Physics.

PHILANDER BETTS, B. S.,

Instructor in Electrical Engineering.

JOHN H. FEDELER,

Instructor in Mechanical Engineering.

IRENE GIBSON,

Instructor in Library Science.

JULES MAILLET.

Assistant in French.

WINTER F. BOWEN.

Assistant in Assaying.

NORMAN UNDERWOOD.

Assistant in Chemistry.

EDWIN A. HILL, M. S.

Assistant in Chemistry.

FREDERICK C. JONES, M. S.

Assistant in Chemistry.

CHARLES M. BAKER.

Assistant in Architecture.

LECTURERS.

OTIS T. MASON, Ph. D., LL. D.

Lecturer on Anthropology.

THOMAS M. CHATARD, Ph. D.

Lecturer on Chemical Engineering.

CARROLL D. WRIGHT, LL. D.

Lecturer on Social Statistics.

JOSEPH C. HORNBLOWER, Ph. B.

Lecturer on Architectural History.

GEORGE W. STONE.

Lecturer on Building Construction.

The School of Science is called the Corcoran Scientific School in grateful recollection of the many benefactions of W. W. Corcoran to the University.

The exercises of the School begin Wednesday, September 24, 1902, and are held in University Hall (southeast corner of Fifteenth and H streets, N. W.), which is constructed with special reference to the wants of the School.

Properly qualified persons of either sex are admitted as students in the full courses of study leading to the degree of Bachelor of Science, as described below, or they may take special courses in any of the departments.

Candidates for admission to the Freshman Class should be prepared in Rhetoric, English Literature, Elementary French, American History, Algebra through Quadratic Equations, Plane Geometry, Elementary Chemistry, Elementary Physics, and the elements of Free hand and Mechanical Drawing.

Detailed statements of the requirements in each subject are given on pages 25 to 26 of this catalogue. Graduation from a High School having a four-year course represents the preparation desired. Mature students may be admitted to the regular course, even though deficient in some of the requirements for admission.

The following courses of study leading to the degree of Bachelor of Science are arranged to be completed in four years, but students otherwise engaged are granted a longer period in which to fulfill the requirements:

COURSES OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

*Freshman Year.**

Common to all Courses.

(1) Architecture, 1.	(3) English, 1, 4.
Free hand Drawing.	Rhetoric; Literature of
(3) Chemistry, 1.	England.
General Chemistry.	(5) Mathematics, 1, 2.
(2) Drawing, 1.	Algebra; Geometry.
Mechanical and Geomet-	(2) Romance Languages, 1.
rical Drawing.	French.

*Students in Course X will take Course 2 in Architecture (Architectural Drawing) in addition to the above.

†The numbers in parentheses give the number of hours or periods per week. The numbers following the subjects refer to the special topics in the various Departments of the General Scientific School.

COURSE I—GENERAL.

Sophomore Year.

- | | |
|------------------------|------------------------|
| (2) German, 1. | (1) Mineralogy, 1. |
| (3) Mathematics, 3, 4. | Descriptive Mineralogy |
| Trigonometry, Analytic | (4) Physics, 1. |
| Geometry. | General Physics. |

Elective, eight hours a week.

Junior Year.

- | | |
|---------------------|----------------|
| (2) Geology, 1. | (2) German, 2. |
| Systematic Geology. | |

Elective, thirteen hours a week.

Senior Year.

- | | |
|--------------------|--------------------|
| (2) Astronomy, 1. | (2) Philosophy, 1. |
| General Astronomy. | Psychology. |

Elective, thirteen hours a week.

The subjects specified in the General Course are required of all candidates for degrees, *except* that permission may be given to substitute other courses for the drawing of the Freshman year, and to substitute Botany or Zoology for the Mineralogy and Geology of the Sophomore and Junior years. Students desiring to make such substitutions should make written application to the Dean.

COURSE II—IN CIVIL ENGINEERING.

Sophomore Year.

- | | |
|--------------------------------|-------------------------|
| (6) Applied Mathematics, 1, 2. | (2) German, 1. |
| Descriptive Geometry. | (3) Mathematics, 3, 4. |
| Elementary Mechanics. | Trigonometry, Analytic |
| (6) Engineering, 1, 6. | Geometry. |
| Surveying and Construction. | (2) Mineralogy, 1. |
| | Descriptive Mineralogy. |
| (4) Architecture, 2. | (3) Physics, 1. |
| Architectural Drawing. | General Physics. |

Junior Year.

- | | | |
|--|---------------------|--|
| (7) Applied Mathematics, 3,
4, 6. | (2) German, 2. | (8) Engineering, 3, 5. |
| Mechanics; Hydraulics;
Graphical Statics. | | Railroad Engineering;
Sanitary Engineering. |
| (2) Geology, 1. | (2) Mathematics, 5. | |
| Systematic Geology. | Calculus. | |

Senior Year.

- | | |
|--------------------------------|-----------------------|
| (2) Applied Mathematics, 5. | (1) Geodesy (1 term). |
| Strength of Materials | (1) Mathematics, 7. |
| (2) Astronomy, 1. | Least Squares. |
| General Astronomy. | (2) Philosophy, 1. |
| (1) Chemistry, 13. | Psychology. |
| Metallurgy of Iron. | |
| (10) Engineering, 2, 4, 7. | |
| Hydraulic Engineering. | |
| Masonry; Framed
Structures. | |

COURSE III—18 ELECTRICAL ENGINEERING.

September Year.

- | | |
|-------------------------------------|--|
| (2) Applied Mathematics, 1. | (4) Mechanical Engineering, |
| Descriptive Geometry. | 1, 2. |
| (2) Drawing, 3. | Machine Design; Kine- |
| Machine Drawing. | matics. |
| (2) German, 1. | (4) Mineralogy, 1. |
| (3) Mathematics, 3, 4. | Descriptive Mineralogy. |
| Trigonometry; Analytic
Geometry. | (6) Physics, 1, 9. |
| | General Physics; Phys-
ical Laboratory. |

Junior Year.

- | | |
|-----------------------------|--------------------------------|
| (2) Applied Mathematics, 3. | (2) Mechanical Engineering, 1. |
| Analytic Mechanics. | Machine Design. |
| (2) Geology, 1. | (9) Physics, 2, 3, 10, 14. |
| Systematic Geology. | Electricity; Laboratory. |
| (2) German, 2. | |
| (2) Mathematics, 5. | |
| Calculus. | |

Senior Year.

- | | |
|---|--|
| (3) Applied Mathematics, 4, 5.
Hydraulics; Strength of
Materials. | (2) Philosophy, 1.
Psychology. |
| 2 Astronomy, 1.
General Astronomy. | (1) Physics, 4, 5, 6, 12, 14.
Theory and Application of
Electricity; Advanced
Laboratory; Inspection. |
| (1) Chemistry, 13.
Metallurgy of Iron. | |
| (2) Mechanical Engineering, 7.
Power Plants. | |

COURSE IV—IN MECHANICAL ENGINEERING.

Sophomore Year.

- | | |
|---|---|
| (2) Applied Mathematics, 2.
Elementary Mechanics. | (6) Mechanical Engineering, 1.
2, 3.
Machine Design; Kine-
matics. |
| (1) Chemistry, 3.
Laboratory (first term). | (2) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) Drawing, 3.
Machine Drawing. | (5) Physics, 1.
General Physics. |
| (2) German, 1. | |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic
Geometry. | |

Junior Year.

- | | |
|--|--|
| (2) Applied Mathematics, 3.
Analytical Mechanics. | (13) Mechanical Engineering, 1.
2, 4, 5, 6, 7.
Machine Design; Kine-
matics; Thermodynam-
ics; Mechanical Tech-
nology; Mechanics of
Machinery; Power
Plants. |
| (2) Geology, 1.
Systematic Geology. | |
| (2) German, 2. | |
| (2) Mathematics, 5.
Calculus. | |

Senior Year.

- | | |
|---|---|
| (2) Astronomy, 1.
General Astronomy. | (13) Mechanical Engineering, 8.
9, 10.
Machine Design; Machin-
ery of Transmission;
Measurement of Power. |
| (1) Chemistry, 13.
Metallurgy of Iron. | 2) Philosophy, 1.
Psychology. |

COURSE V—IN CHEMISTRY (A).

Sophomore Year.

- | | |
|---------------------------|-------------------------|
| (14) Chemistry, 2, 3, 11. | (4) Mineralogy, 1. |
| Laboratory Practice; | Descriptive Mineralogy. |
| Chemical Preparations; | (3) Physics, 1. |
| Advanced Organic. | General Physics. |
| 2) German, 1. | |
| (3) Mathematics, 3, 4. | |
| Trigonometry, Analytic | |
| Geometry. | |

Junior Year.

- | | |
|------------------------|---------------------|
| (17) Chemistry, 4, 11. | 2) Geology, 1. |
| Qualitative Analysis; | Systematic Geology. |
| Advanced Organic. | (2) German, 2. |

Senior Year.

- | | |
|-------------------------------------|--------------------|
| (19) Chemistry, 5, 7, 8, 13. | (2) Astronomy, 1. |
| (15) Quantitative Analysis: | General Astronomy. |
| Assaying; (3) Organic Preparations. | (2) Philosophy, 1. |
| Metallurgy of Steel. | Psychology. |

COURSE VI—IN CHEMISTRY (B).

Sophomore Year.

- | | |
|-----------------------------|-------------------------|
| (2) Applied Mathematics, 1. | (3) Mathematics, 3, 4. |
| Descriptive Geometry. | Trigonometry; Analytic |
| (12) Chemistry, 2, 3, 11. | Geometry. |
| Laboratory Practice; | (5) Mineralogy, 1. |
| Chemical Preparations; | Descriptive Mineralogy. |
| Advanced Organic. | (3) Physics, 1. |
| (2) German, 1. | General Physics. |

Junior Year.

- | | |
|--|---------------------|
| (11) Chemistry, 4, 11. | (2) Geology, 1. |
| (12) Qualitative Analysis, Advanced Organic. | Systematic Geology. |
| (2) Mathematics, 5. | (2) German, 2. |
| Calculus. | (3) Physics, 2, 3. |
| | Electricity. |

Senior Year.

- | | |
|--|----------------------------------|
| (2) Astronomy, 1. | (2) Mathematics, 6, 7. |
| General Astronomy. | Differentials and Least Squares. |
| (16) Chemistry, 5, 7, 8, 13. | (2) Philosophy, 1. |
| (14) Quantitative Analysis; Assaying. (1) Organic Preparations; Metallurgy of Steel. | Psychology. |

COURSE VII---IN MATHEMATICS.

Sophomore Year.

- | | |
|-----------------------------|----------------------------------|
| (4) Applied Mathematics, 1. | (2) German, 1. |
| Descriptive Geometry. | (3) Mathematics, 3, 4. |
| (2) Civil Engineering, 1. | Trigonometry; Analytic Geometry. |
| Surveying. | (4) Mineralogy, 1. |
| (2) Drawing, 4. | Descriptive Mineralogy. |
| Topographic Drawing. | (3) Physics, 1. |
| (2) Romance Languages, 2. | General Physics. |
| French. | |

Junior Year.

- | | |
|-----------------------------|---|
| (2) Applied Mathematics, 3. | (2) History, 1. |
| Analytical Mechanics. | American. |
| (2) Romance Languages, 3. | (4) Mathematics, 5, 8, 9, 10. |
| French. | Calculus; Determinants; Quaternions; Analytic Geometry of Three Dimensions. |
| (2) Geology, 1. | (3) Physics, 2, 3. |
| Systematic Geology. | Electricity. |
| (2) German, 2. | |

Senior Year.

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|-------------------------------------|---------------------------|
| (3) Applied Mathematics, 4, 5. | (2) Philosophy, 1. |
| (4) Astronomy, 1, 2. | Psychology. |
| General and Mathematical Astronomy. | (3) Physics, 4, 7. |
| ($\frac{1}{2}$) Geodesy, 1. | Mathematical Theory of |
| (2) German, 3. | Electricity; Mathematical |
| (4) Mathematics, 6, 7, 11, 12. | Physics. |
| Differential Equations; | |
| Least Squares; Theory | |
| of Equations; History | |
| of Mathematics. | |

COURSE VIII--IN METEOROLOGY.

Sophomore Year.

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|-----------------------------|----------------------------------|
| (2) Applied Mathematics, 1. | (2) Meteorology, 1. |
| Descriptive Geometry. | Observational. |
| (5) Chemistry, 2 or 3. | ($\frac{1}{2}$) Mineralogy, 1. |
| Laboratory. | Descriptive Mineralogy. |
| (2) German, 1. | (3) Physics, 1. |
| (3) Mathematics, 3, 4. | General Physics. |
| Trigonometry; Analytic | |
| Geometry. | |

Junior Year.

- | | |
|-----------------------------|---------------------------|
| (2) Applied Mathematics, 3. | (2) Mathematics, 5. |
| Analytical Mechanics. | Calculus. |
| (2) Botany, 1. | (2) Meteorology, 2. |
| (2) Geology, 1. | Climatology. |
| Systematic Geology. | (3) Physics, 9. |
| (2) German, 2. | Laboratory. |
| | (2) Romance Languages, 2. |
| | French. |

Senior Year.

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|--|---|
| (2) Applied Mathematics, 4.
Hydraulics. | (2) Mathematics, 6, 7.
Differential Equations;
Least Squares. |
| (2) Astronomy, 1.
General Astronomy. | (2) Meteorology, 3.
Special Topics. |
| (1) Geodesy.
Projections. | (2) Philosophy, 1.
Psychology. |
| (2) German, 3. | (6) Physics, 11.
Laboratory. |

COURSE IX—IN GEOLOGY AND MINERALOGY.

Sophomore Year.

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|--|---|
| (2) Botany, 1. | (3) Mineralogy, 1, 2.
Descriptive and Determinative. |
| (4) Civil Engineering, 1.
Surveying. | (3) Physics, 1.
General Physics. |
| (2) German, 1. | |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic Geometry. | |

Junior Year.

- | | |
|---|--|
| (15) Chemistry, 4.
Qualitative Analysis. | (2) German, 2. |
| (2) Geology, 1.
Systematic Geology. | (2) Mineralogy.
Determinative and Crystallographic. |
| | (2) Zoology, 1. |

Senior Year.

- | | |
|---|--|
| (2) Astronomy, 1.
General Astronomy. | (2) Philosophy, 1.
Psychology. |
| (2) Drawing, 4.
Topographical Drawing. | (2) Paleobotany. |
| (2) Politics and Economics, 10.
Political Economy. | (2) Paleozoology. |
| (2) Geology, 2.
Applied Geology. | (2) Special Lectures on Rock-weathering and Sedimentation, Field Methods, etc. |
| (2) Meteorology, 2.
General Climatology. | |

COURSE X—IN ARCHITECTURE.

Sophomore Year.

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|-------------------------------------|-------------------------|
| (4) Applied Mathematics, 1. | (2) German, 1. |
| Descriptive Geometry. | (3) Mathematics, 3, 4. |
| (20) Architecture, 3, 6, 9, 10, 15. | Trigonometry; Analytic |
| History of Architecture; | Geometry. |
| Architectural Drawing | (1) Mineralogy, 1. |
| and Design; Building | Descriptive Mineralogy. |
| Construction. | (3) Physics, 1. |
| | General Physics. |

Junior Year.

- | | |
|--------------------------------------|---------------------|
| (4) Applied Mathematics, 3, 6. | (2) Geology, 1. |
| Mechanics; Graphic Stat- | Systematic Geology. |
| ics (one term). | (2) German, 2. |
| (22) Architecture, 4, 7, 11, 16, 17. | (2) Mathematics, 5. |
| History of Architecture; | Calculus. |
| Architectural Design; | |
| Building Materials; | |
| Specifications. | |

Senior Year.

- | | |
|----------------------------------|--------------------------------|
| (2) Applied Mathematics, 5. | (2) Astronomy, 1. |
| Strength of Materials. | General Astronomy. |
| (21) Architecture, 5, 8, 12, 13, | (2) Politics and Economics, 1. |
| 14, 18. | Business Law. |
| History of Architecture; | (2) Philosophy, 1. |
| Architectural Design; | Psychology. |
| Building Materials; | |
| Sanitary Science; | |
| Thesis. | |

COURSE XI—IN ECONOMICS.

Sophomore Year.

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|---|---|
| (2) Politics and Economics, 1.
Business Law. | (4) Mineralogy, 1.
Descriptive Mineralogy. |
| (2) English, 2.
English Prose. | (3) Physics, 1.
General Physics. |
| (2) German, 1. | (2) Romance Languages, 2. |
| (2) History, 1.
American. | French. |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic
Geometry. | |

Junior Year.

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|--|---|
| (6) Politics and Economics,
2, 4, 7.
Politics and Administra-
tion; Economic Devel-
opment; Finance. | (2) German, 2.
(2) History, 2.
Ancient History. |
| (2) Geology, 1.
Systematic Geology. | (2) Philosophy, 1.
Psychology. |
| | (2) Zoology, 1. |

Senior Year.

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|--|--|
| (2) Astronomy, 1.
General Astronomy. | (2) German, 4.
(4) History, 3, 5.
Medieval; English. |
| (2) Botany, 1. | (2) Philosophy, 1.
Psychology. |
| (6) Politics and Economics, 6,
9, 12.
Statistics; Political Econ-
omy; Sociology. | |

COURSE XII—IN LANGUAGE AND LITERATURE.

Sophomore Year.

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|-------------------------------------|-------------------------|
| (2) English, 2. | (1) Mineralogy, 1. |
| English Prose. | Descriptive Mineralogy. |
| (2) German, 1. | (3) Physics, 1. |
| (3) Mathematics, 3, 4. | General Physics. |
| Trigonometry; Analytic
Geometry. | |

Six hours to be chosen from courses in Greek, Latin, and Romance Languages.

Junior Year.

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|--|--|
| (3) English, 6 or 7 and 3 or 5
or 9. | (2) History, 1.
American. |
| Lyric Poetry or English
Novel, Composition
or Literature of Amer-
ica or Old English. | (2) Geology, 1.
Systematic Geology.
(2) German, 2. |

Eight hours to be chosen from Greek, Latin, and Romance Languages.

Senior Year.

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|---------------------------------|-----------------------------------|
| (2) Astronomy, 1. | (4) History, 2, 3. |
| General Astronomy. | Ancient; Medieval. |
| (2) English, 8.
Shakespeare. | (2) Philosophy, 1.
Psychology. |

Eight hours to be chosen from Greek, Latin, German, and Romance Languages.

COURSE XIII—IN LIBRARY SCIENCE.

Sophomore Year.

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|----------------------------------|-------------------------|
| (5) English, 2, 3. | (1) Mineralogy, 1. |
| English Prose: Composition. | Descriptive Mineralogy. |
| (2) French, 2. | (3) Physics, 1. |
| (2) German, 1. | General Physics. |
| (5) Library Science, 1, 3, 5. | |
| (3) Mathematics, 3, 4. | |
| Trigonometry: Analytic Geometry. | |

Junior Year.

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|---|-------------------------------|
| (3) English, 6 or 7; 5. | (2) Geology, 1. |
| Lyric Poetry or English Novel; Literature of America. | Systematic Geology. |
| (2) French, 3. | (5) Library Science, 2, 4, 6. |
| (2) German, 2. | (2) Romance Languages, 6. |
| | Spanish. |
| | (2) History. |

Senior Year.

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|---------------------------------------|---------------------------|
| (2) Astronomy, 1. | (2) History. |
| General Astronomy. | (2) German, 3. |
| (2) Botany, 1; or Zoology, 1. | (2) Philosophy, 1. |
| (5) Chemistry, 2 or 3, or Physics, 9. | Psychology. |
| Laboratory. | (2) Romance Languages, 9. |
| | Italian. |
| (2) English, 6 or 7. | |
| Lyric Poetry or English Novel. | |

COURSE XIV—IN PHYSICS AND MATHEMATICS.

Sophomore Year.

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|---|---|
| (3) Applied Mathematics, 1.
Descriptive Geometry. | (4) Mineralogy, 1.
Descriptive Mineralogy. |
| (1) Chemistry, 3 (first term).
Qualitative Analysis. | (3) Physics, 1.
General Physics. |
| (2) German, 1. | (1) Physics, 9 (second term).
Laboratory. |
| (3) Mathematics, 3, 4.
Trigonometry; Analytic
Geometry. | (2) Romance Languages, 2.
French. |

Junior Year.

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|---|--|
| (2) Applied Mathematics, 3.
Mechanics. | (9) Physics, 2, 7, 11.
Mathematical Theory of
Electricity; Mathemat-
ical Physics; Advanced
Laboratory Work. |
| (2) Geology, 1.
Systematic Geology. | |
| (2) German, 2. | |
| (4) Mathematics, 5, 8, 9, 10.
Calculus; Determinants;
Quaternions; Analytic
Geometry of Three
Dimensions. | |

Senior Year.

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|---|---|
| (2) Astronomy, 1.
General Astronomy. | (11) Physics, 4, 7, 8, 13.
Advanced Mathematical
Theory of Electricity;
Mathematical Physics;
Physical Chemistry;
Advanced Laboratory
Work. |
| (2) German, 3. | |
| (3) Mathematics, 6, 7.
Differential Equations;
Least Squares. | |
| (2) Philosophy, 1.
Psychology. | |

COURSE XV—IN BIOLOGY.

Sophomore Year.

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|------------------------|------------------------|
| (2) Botany, 1. | (3) Mineralogy, 1, 2. |
| (2) German 1. | Descriptive and Deter- |
| (3) Mathematics, 3, 4. | minative |
| Trigonometry; Analytic | (3) Physics, 1. |
| Geometry. | General Physics. |
| | (2) Zoology, 1. |

Junior Year.

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|-----------------------|---------------------|
| (2) Botany, 2 or 3. | (2) Geology, 1. |
| (15) Chemistry, 4. | Systematic Geology. |
| Qualitative Analysis. | (2) German, 2. |
| | (2) Zoology, 2. |

Senior Year.

- | | |
|-----------------------------|--------------------|
| (2) Astronomy, 1. | (2) Geology, 2. |
| General Astronomy. | Applied Geology. |
| (2) Botany, 3 or 2. | (2) Philosophy, 1. |
| (2) Drawing, 2. | Psychology. |
| Topographical Drawing. | (2) Paleobotany. |
| (2) Politics and Economics, | (2) Paleozoology. |
| 10. | (2) Zoology, 3. |
| Political Economy. | Ornithology. |

PROVISIONAL SCHEDULE OF

HOURS. P. M.	MONDAY	TUESDAY	WEDNESDAY
	Sociology 4:15-4:45 American History 4:15-4:45 Medieval History 4:15-4:45	Statistics 4:15-4:45 Ancient History 4:15-4:45	Politics 4:15-4:45 Medieval History 4:15-4:45 English History 4:15-4:45
6 to 7	Analytic Geometry Astronomy Geology Italian Measurement of Power Rhetoric Trigonometry	Botany III Composition Chemical Laboratory Descriptive Geometry Electrical Laboratory Elementary Electricity French V. Logic Mechanical Technology Physical Laboratory Sanitary Engineering Theory of Equations Zoology	Biblical Literature Elementary Electricity Elementary Mechanics German III Latin II Literature of England Thermodynamics
7 to 8	American Literature Architectural Design Business Law Calculus Chemistry English Novel Lyric Poetry Greek II Mechanics of Materials Mineralogy Spanish I Technical Electricity	Architectural Design Botany I Chemical Laboratory Differential Equations Economic Development Electrical Laboratory English Prose French I Graphic Statics Library Science Organic Chemistry Ornithology Physical Laboratory Surveying Thermodynamics Zoology	Chemistry German II Latin III Library Science Mechanics of Materials Measurement of Power New Testament Greek Pen and Ink Rendering Physics Spanish Conversation

RECITATIONS AND LECTURES, 1902-1903.

THURSDAY	FRIDAY	SATURDAY
Sociology, 118-118	Ancient History, 118-118	Poetics, 111-111
American History, 118		
English History, 118		
Analytic Geometry	Analytic Geometry	Electrical Laboratory
Chemistry	Astronomy	Freehand Drawing
Elementary Electricity	Geology	Latin I
Hebrew	German III	Latin IV
Logic	Power Plants	Machine Drawing
Railroad Engineering	Rhetoric	Mechanical Drawing
Trigonometry	Spanish II	Meteorology
Zoology	Trigonometry	Physical Chemistry
		Topographical Drawing
Biblical Literature	Economic Development	Archaeology
Botany I	Geometry	Electrical Laboratory
Business Law	Geometry, Plane	Freehand Drawing
Calculus	German II	Machine Drawing
Greek I	Hebrew	Mechanical Drawing
Library Science I	Italian	Physical Laboratory
Mechanical Drawing	Library Science	
Ornithology	Masonry	
Physics	Machinery of Transmission	
Topographical Drawing	Mineralogy	
Zoology	Shakespeare	
	Water Color	

PROVISIONAL SCHEDULE OF

HOURS. P. M.	MONDAY.	TUESDAY	WEDNESDAY.
8 to 9	Algebra.	Architectural Design	Advanced Elec- tricity
	Algebra (Prepara- tory)	Building Construc- tion	
	Analytical Me- chanics	Chemical Laboratory	Analytical Me- chanics
	Architectural De- sign	Electrical Laboratory	Architectural His- tory.
	Building Construc- tion	Framed Structures	Framed Structures
		Geometry.	French I A.
	Greek V	Geometry (Plane).	German I
	Library Science 1	Greek III.	Latin III.
	Library Science 2	Highway Engineer- ing	Library Science 1
	Literature of Amer- ica	Library Science 2	Steam Engine.
	Metallurgy.	Machinery of Trans- mission	
	Physics.	Organic Chemistry	
	Spanish II.	Physical Laboratory	
9 to 10		Political Economy.	
		Shakespeare.	
		Spanish I.	
		Thermodynamics.	
	Advanced Electric- ity	Algebra.	Building Construc- tion (Arch).
	Elementary Me- chanics	Algebra (Prepara- tory)	French II.
	French III.	Architectural Draw- ing	Hydraulics
	Geometry (Plane)	Architectural Design	Kinematics
	Kinematics	Chemical Laboratory	Steam Engine
	Shades and Shad- ows	Electrical Laboratory.	
	Thermodynamics	Finance	
	Greek Literature	French III	
		Hydraulic Engineer- ing	
		Machinery of Trans- mission	
		Mechanical Technol- ogy	
		Organic Chemistry	
		Physical Laboratory	

The Laboratories and Drawing-rooms are open every evening.
Chemistry 2 and 3 (laboratory courses), Tuesday from 5 to 10 P. M.
The full course in Assaying occupies three evenings a week for three months.

RECITATIONS AND LECTURES, 1902-1903.

THURSDAY.	FRIDAY.	SATURDAY
Advanced Electricity	Algebra	Electrical Laboratory
Botany III	Algebra - Preparatory	Freehand Drawing
Descriptive Geometry	English Novel	Latin II
Differential Equations	Framed Structures	Machine Drawing
French I B.	German I	Machine Design
Greek V	Greek III	Physical Laboratory
Literary Science 4	Literary Sciences	
Machine Drawing.	Lyric Poetry	
Machine Design	Machine Design	
Organic Chemistry	Machinery of Transmission	
Sanitary Engineering	New Testament Greek	
Steam Engine.	Political Economy.	
	Spanish I	
	Water Color.	
French II	Building Construction	Electrical Laboratory
French V.	English Prose	Machine Drawing
Graphic Statics.	Finance.	Machine Design.
Latin I.	Latin III	Physical Laboratory
Latin III.	Machine Design.	
Least Squares.	Spanish II	
Machine Design		
Machine Drawing		
Railroad Engineering		
Steam Engine.		
Surveying.		
Technical Electricity		

DEPARTMENTS OF INSTRUCTION.*

ANTHROPOLOGY.

DR. MASON, Lecturer.

APPLIED GEOMETRY.

PROFESSOR PIERCE, Head of Department.

Courses of lectures on Maps, Surveys, and Instruments, supplementing the regular courses in Engineering, will be given in this department.

APPLIED MATHEMATICS.

ACTING PROFESSOR PRESSEY.

MR. BAYARD, Instructor.

1. Descriptive Geometry, two hours; and Exercises, two hours †
2. Elementary Mechanics, two hours.
3. Analytical and Applied Mechanics, two hours.
4. Hydraulics, one hour.
5. Strength of Materials and Theory of Elasticity, two hours.
6. Graphical Statics, two hours; and Exercises, two hours.
7. Stereotomy, one hour, and Exercises.

ARCHITECTURE.

PROFESSOR LAIST, Head of Department.

MR. HORNELOWER, Lecturer on Architectural History.

MR. SAYER, Instructor in Shades and Shadows and Perspective Drawing.

MR. BAKER, Assistant in Architecture.

MR. STONE, Lecturer on Building Construction.

*An elective course asked for by less than five students may not be given.
 † Unless otherwise stated, hours per week throughout the year.

MR. DONN, Instructor in Pen-and-ink Drawing.

MR. DUNBAR, Instructor in Freehand Drawing.

MR. MOSER, Instructor in Water Colors.

1. Freehand Drawing. One hour.
2. Architectural Drawing (the five orders). One hour.
3. Ornament. Six hours, Sophomore year.
4. Ornament. Six hours, Junior year.
5. Ornament. Six hours, Senior year.
6. History of Architecture. Egyptian, Assyrian, and Grecian. One hour.
7. History of Architecture. Grecian and Roman. One hour.
8. History of Architecture. Romanesque, Renaissance, and Gothic. One hour.
9. Architectural Drawing. A review of the orders, with details to a large scale; measured drawings of existing buildings; copies and enlargements of plans and working drawings. First term, Sophomore year.
10. Architectural Design. Elementary composition: eight problems or the equivalent. Second term, Sophomore year.
11. Architectural Design. Seven problems or the equivalent. Junior year.
12. Architectural Design. Six problems or the equivalent. First term. Senior year.
13. Thesis. An original design; a discussion of an architectural problem.
14. Sanitary Science. One hour, one term.
15. Building Construction. One hour, Sophomore year.
16. Building Materials and Construction. Two hours, Junior year.
17. Specifications. One hour, second term, Junior year.
18. Building Materials and Construction. Two hours, first term, Senior year.
19. Inspection of buildings erected or in course of erection.

The assigned problems in courses 4 to 8 will require not less than twelve hours' work a week from each student.

Special Course.

This course is arranged to suit the requirements of architectural or student draftsmen who may desire to supplement the practical experience of office work with special training in design, rendering, and other technical subjects.

It is also open to others whose previous education is such that they can, in the opinion of the professor in charge, pursue the course to advantage.

No entrance examinations will be required, but a certain degree of proficiency in drawing and the rudiments of architecture is expected.

Special students may enter at any time and pursue any class of work for which they are fitted.

The course comprises all the technical architectural work in the four years' course.

Synopsis of Special Course.

Drawing.—Projections, shades and shadows, perspective.

Rendering.—Pen and ink, wash and water color.

Architectural history complete.

Design, elements of architecture, orders, pilasters, pediments, inter-columniations, arcades, doors, windows, balconies, balustrades, domes, towers, etc.

Elementary design, theory of composition, proportion, etc.

Architectural composition, problems.

ASTRONOMY.

PROFESSOR RICE, Head of Department.

DR. MILLIS, Instructor.

1. General Descriptive Astronomy. Young's General Astronomy, with occasional lectures illustrated with the stereopticon. The student is taught the use of star charts in locating the constellations. When circumstances permit, students will observe telescopic objects of interest, and also make some of the fundamental observations of practical astronomy, which will be used in the solution of problems. Two hours.

2. Mathematical and Theoretical Astronomy. Theory taught mainly by lectures, supplemented by the solution of problems and practical computations. The course includes the discussion and application of various formulæ for interpolation and tabular differentiation and the practical precepts for correcting errors by means of differences; considerations respecting the elliptic form of the earth's meridian, and the derivation of formulæ for computing the "latitude reduction" and $\log p$; transformations of the various coordinate systems employed in spherical astronomy; the construction and use of the American Ephemeris, or Nautical Almanac, including computations of the principal quantities contained in that fundamental work; a discussion of the laws of planetary (elliptic) motion, and the application of Lagrange's Theorem to the solution of Kepler's problem and similar questions; the definition of the *elements* of an orbit, and their use in fixing the position of a planet in space; the reduction of heliocentric coordinates to geocentric, including the corrections for nutation and aberration, etc., etc. This course is at once thorough and comprehensive, and is designed to meet fully the requirements of both the theoretical student and the practical computer. A thorough training in mathematics is presupposed. Four hours.

BIBLICAL LITERATURE.

PROFESSOR POLLARD, Head of Department.

1. The Legal and the Wisdom Literature of the Old Testament. This course includes a study of the Mosaic Legislation, Hebrew social, political, and religious customs during the first term, and a study of the books of Job, Proverbs, Ecclesiastes, and Song of Songs during the second term. Two hours.

2. Hebrew Poetry and Prophecy. A study of the national and religious ideals of Israel, with special reference to the development of the Messianic idea. Two hours.

3. History of the Hebrew People—studied in the light of modern excavation and research. Two hours.

4. Life and Times of Jesus, with study of the Apostolic Age. Two hours.

5. The Hebrew Language. Grammar and reading in historical and prophetic books of the Old Testament. Two hours.

6. The New Testament Greek. Readings in the Gospels and the Epistles. Two hours.

7. The History of the Bible as a Book. Its transmission from early days to the present time; influence of English versions upon modern life and letters. One hour.

BOTANY.

ASSISTANT PROFESSOR MCKENNEY.

1. General Morphology and Physiology of Plants. (Text-books: Strasburger, Noll, Schenck, and Schimper's Text-book of Botany. The work of this course comprises a study of the more fundamental anatomical characters of the plant kingdom, together with a consideration of the primary functions performed by all living plants. Special attention is given to the relations existing between structure and function. Lower as well as higher plants are studied in this course. Lecture, one hour; laboratory, two hours.

2. Plant Taxonomy. (Text-books: Warming's Systematic Botany; Gray's Manual of the Botany of the Northern United States.) A comparative study of the chief characters of the more important groups of plants. The relations of the various groups to one another is pointed out. Field-work is given when practicable. Methods of collection and preservation of plants is also shown. The course is given in two parts.

(a.) The Cryptogams. A study of the more important forms of Algae, Fungi, Mosses, and Ferns. First term.

(b.) The Phanerogams. The characters of twenty families of flowering plants, and with some of their characteristic species, are studied. Second term. Lecture, one hour; laboratory, two hours.

3a. Plant Histology. This course includes a consideration of the minute structure of the cell and of the chief tissues of the higher plants. First term. Lecture, one hour; laboratory, two hours.

36. Plant Physiology. (Books: MacDougal's Plant Physiology; Darwin and Action, Practical Physiology of Plants; Detmer-Moor, Practical Plant Physiology.) A detailed study of the principal phenomena of the nutrition, respiration, growth, irritability, and reproduction in plants. Second term. Lecture, one hour; laboratory, two hours.

4. Ecological Botany. An examination of the effects of environment on plant structure and functions. The effect of environment on plant distribution is also shown. This course is supplemented by field-work. Second term. Lecture, one hour; laboratory, two hours.

CHEMISTRY.

PROFESSOR MUNROE, Head of Department.

DR. CHATARD, Lecturer on Chemical Engineering.

MR. HOPKINS, Instructor in Chemistry.

MR. WALLIS, Instructor in Chemistry.

MR. BOWEN, Assistant in Assaying.

MR. HILL, Assistant in Chemistry.

MR. JONES, Assistant in Chemistry.

MR. UNDERWOOD, Assistant in Chemistry.

1. General Chemistry. A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. Three hours.

Text-books: Barker's, Remsen's, and Bloxam's Chemistries.

2. Laboratory Practice. A laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Five hours.

Text-book: Cooke's Laboratory Practice.

3. Preparation of and Study of the Properties of Chemical Substances. Five hours.

Text-books: Thorpe's Inorganic Chemical Preparations; Appleton's Easy Experiments of Organic Chemistry.

4. Qualitative Analysis. A laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Fifteen hours.

Text books: Clowes and Fresenius' Qualitative Analysis; Newth's Manual of Chemical Analysis.

5. Quantitative Analysis. A laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Fifteen hours.

Text-books: Fresenius' Quantitative Analysis; Newth's Manual of Chemical Analysis.

6. Technical Analysis and Industrial Processes. A lecture and laboratory course in which the elements of chemical engineering are taught, and special attention is given to rapid commercial methods of analysis. Twelve hours.

Text-books: Hempel's Gas Analysis, Phillips' Engineering Chemistry, Wagner's Chemical Technology, Allen's Commercial Organic Analysis.

7. Assaying and Metallurgy of the Precious Metals, carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours, for three months.

Text-books: Brown's Manual of Assaying, Rickett's Assaying.

8. Chemistry of the Carbon Compounds. A laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Twelve hours.

Text book: Gattermann's Practical Methods of Organic Chemistry.

9. Modern Methods of Iron and Steel Analysis. A laboratory course for which a large amount of valuable material has been accumulated. For checking the work, samples which have been analyzed by some of our most eminent specialists are available. Fifteen hours.

Text-book: Blair's Chemical Analysis of Iron.

10. Chemistry of Explosive Substances. A laboratory and field work course in the preparation and in the study of the properties and methods of analysis of explosive bodies. Fifteen hours.

Text-book: Munroe's Chemistry of Explosives.

11. Advanced course in Organic Chemistry. Richter's Text-book of Organic Chemistry. Two hours for two years.

12. Lectures and Quizzes on the Principles of Analysis.

13. Metallurgy of Iron and Steel. A course of lectures and readings. One hour.

Work completed in this Department is accepted as the equivalent of similar work required in the Medical School.

CIVIL ENGINEERING.

PROFESSOR PRESSEY, Head of Department.

MR. HERMAN, Instructor.

MR. NELSON, Instructor.

1. Land and Topographical Surveying, with theory and use of instruments. Two hours. Practical Exercises and Field-work, not less than sixty hours during the session.

2. Hydraulic Engineering (Rivers, Water Power, and Irrigation). One hour. Constructive exercises. One hour.

3. Railroad and Highway Engineering. Two hours. Field-work as in course 1.

4. Masonry Construction. One hour. Constructive Exercises. Two hours.

5. Sanitary Engineering (Water Supply and Sewerage). Two hours. Design. Two hours.

6. Materials of Construction. Two hours. Exercises. One hour.

7. Framed Structures. Three hours. Design. Two hours.

DRAWING.

PROFESSOR THURSTON, Head of Department.

ASSISTANT PROFESSOR MUIR.

1. *Mechanical Drawing*.--Two hours, with supplementary exercises.

This course is designed to give a knowledge of the fundamental principles of mechanical drawing and to prepare for higher technical drawing. It includes practice in:

- a. Geometrical and graphical constructions, including higher curves.
- b. Elementary projections, sections, intersections, etc.
- c. Isometric drawing, including representation of wood-joints and assembly drawings.
- d. Dimensioning, lettering, conventional symbols.
- e. First principles of working drawings, tracings, blue prints, etc.

Special students taking this course may, if they so desire, devote three class periods to the work, taking additional exercises, including color symbols.

2. *Machine Drawing*.--A general course in reading drawings, and in drawing-room practice. One hour. (Special students, two hours.)

- a. Names and arrangements of views and sections.
- b. Conventional methods and nomenclature of machine parts.
- c. General drawing-room practice.
- d. Describing the machine and its operation from the drawing.

3. *Machine Drawing*.--A course for mechanical and electrical engineering students, or for special students. Four hours for one term, Sophomore year.

- a. Projections of intersections and development of surfaces.
- b. Conventional forms and rules.
- c. Elementary working drawings.
- d. Reading of drawings and nomenclature of machine parts.

Advanced work for special students. Four hours, second term.

- e.* Working drawings and sketches from models.
- f.* Detailing from general drawings.
- g.* Tracing and blue printing.
- h.* Designing by means of graphic methods and empirical formulae, without the use of higher mathematics.

4. Topographic Drawing. Two hours, supplemented by practice.

- a.* Technical lines.
- b.* Hypsographic expressions, including contours, hachures, and shading.
- c.* Topographic, cadastral, and public culture symbols.
- d.* Scales and plotting.
- e.* Projections, reductions, and enlargements.
- f.* Compilation, plain and in color.
- g.* Statistical and commercial map-work.

5. Topographic Modeling and Field-work, including collection of data, the platting of contours, and the construction of card-board and plaster models. Two hours, supplemented by field-work.

6. Patent Office Drawing, as required by the rules of the United States Patent Office. Two hours.

7. Lettering as applied to Topographic, Architectural, and Mechanical Drawing. Two hours.

- a.* Detailed study of three standard alphabets.
- b.* Words and phrases—selected from working drawings.
- c.* Dimensions.
- d.* Titles and headings: display.
- e.* Borders, north points, etc.

NOTE.—All courses are open to special students.

ENGLISH.

PROFESSOR WILBUR, Head of Department.

The purpose of courses 1-3 is to discover by analysis principles of style, to form by constant practice a style based on these principles, and to trace the evolution of a standard of writing by

a study of prose masterpieces from Elizabeth's time to the present. The purpose of courses 4-8 is to give the student acquaintance with the great representative writers, and to cultivate power of appreciation and refinement of taste by a study of the best literature.

1. Practical Rhetoric. Rhetorical analysis and composition. (Text-books: Genung's *Practical Elements of Rhetoric*; Genung's *Handbook of Rhetorical Analysis*.) This course presupposes a knowledge of the elements of rhetoric. Two objects are contemplated: (1) A verification of rhetorical theories by the analysis of selections from the best writers, with definite, practical deductions to guide in criticism and composition; (2) the application of rhetorical rules in paragraph and theme writing. Two hours.

2. English Prose. A critical study of representative prose works in chronological order from the time of Elizabeth, tracing the development of prose style and literature. Two hours.

3. Composition. (Handbook: Wendell's *English Composition*.) Practice in various forms of discourse and studies in criticism. This is an advanced course in English Composition. Essays are written weekly. These are exchanged and the hour is used in writing criticisms upon them. Essays and criticisms are finally revised and returned. One hour.

4. The Literature of England. A lecture course, historical and critical. Members of class read Taine's *History of English Literature*. One hour.

5. The Literature of America. Studies in history and criticism. Students taking this course are expected to read widely in the literature of the periods studied. One hour.

6. Lyric Poetry. Studies in the poetry of two periods: the first half year, Elizabethan and Seventeenth Century Lyrics; the second half year, Nineteenth Century Lyrics. (Not given in 1902-1903.) Two hours.

7. The English Novel. Development of the Novel, with critical studies of selected works, including some of the best contemporary fiction. (Not given in 1901-1902.) Two hours.

8. Shakespeare. A study of the tragedies and the last plays of Shakespeare. The Temple edition is recommended. Two hours.

9. Old English. Elementary course. Text-books: First Book in Old English, Cook. Exercises in Old English, Cook. The essentials of the grammar and reading of selections from Old English texts. One hour.

EXPRESSION AND ORATORY.

PROFESSOR KIRBY, Head of Department.

The aim of the instruction is to secure efficiency in reading and speaking, and to this end the instruction given seeks to affect the mental states according to the principles of the new elocution, to develop and train the voice, to gain bodily control—in short to develop skill in commanding all of the expressional functions. Artificiality is carefully guarded against, and a style direct, clear, forcible, elegant, and true is cultivated. The analytical study of standard literature, with an interpretive or expressional motive, is regarded as of special value. Individual inclination and aims are consulted, and in the scheme of study the individual is regarded as the unit. Preachers, teachers, lawyers, readers, and persons of leisure seeking culture for personal enjoyment or social aims will find the work adapted to their needs.

1. Elocution. The New Elocution, Del Sarte System: Psychology of Expression, Reactions, Conceptions, Imagination, Principles of Vocal and Gesticular Expression, Theory of Temperaments, of Magnetism, Sources, Elements, The Audience, Conversational Basis, Analysis; Memorizing, Delivery, Criticism; Expressional Aim, Physical Control, Repose, Freedom, Specialization of Function, Good Voice, Breathing, Health, Special System of Exercises, Skill, Artistic Forms, Gesture.

2. Advanced Expression, Reading and Speaking.

1.) Voice and Gesture Continued: Interpretation of Standard Literature, Measure and Rhythm, Orations.

2. Art of Conversation, Story-telling, Short Speeches, Current Events, Debate, Dramatic Art and Interpretation, Criticism.

GEODESY.

PROFESSOR GORE, Head of Department.

1. As supplementary to the course in Engineering, instruction is offered in Geodesy, embracing base-line measurement, adjustment of triangulation, computation of geodetic coordinates, and a discussion of the figure of the earth.

Text-book: Gore's Elements of Geodesy, 3d edition.

GEOLOGY AND MINERALOGY.

PROFESSOR MERRILL, Head of Department.

DR. STAXTON, Instructor in Paleontology and Stratigraphical Geology.

MR. TWITCHELL, Instructor in Geology.

Mineralogy.

1. Descriptive Mineralogy. Two hours, first term.

2. Determinative Mineralogy. Four hours, second term.

Mineralogy is taught as introductory to Geology. The course is therefore designed with especial reference to minerals as rock constituents or as segregated in ore deposits. So far as possible, the course is practical. It includes a study of the ores of the base and precious metals and their associates, and the non-metallic minerals, as the natural salts and the hydrocarbon compounds. Opportunity is given the student to become familiar with blowpipe and qualitative methods of determination, and access is given to a varied collection, showing the minerals not merely in their pure and well-crystallized forms, but in massive and granular forms, associated with gangue products and other impurities as occurring in nature.

Geology.

1. Systematic Geology: Geognosy: Dynamical, Structural, and Stratigraphical Geology. Text-books: Scott's Introduction to Geology; Merrill's Rocks, Rock-weathering and Soils. Two hours.

2. Economic Geology. Text-books: Kemp's Ore Deposits of the United States; Merrill's Stones for Building and Decoration. Two hours.

The course in Geology consists of lectures, recitations, laboratory and field work. Opportunity is given the students in the laboratory, and, so far as hours will permit, in the field as well, to familiarize themselves with the appearance and general characteristics of rock masses. Text-book recitations are supplemented by lectures on the subjects of rock formation by sedimentation, metamorphism, and vulcanology, and, so far as time allows, on the methods of study by means of the microscope and thin sections (micropetrology). Under the head of Applied Geology are considered, mainly by lectures and laboratory practice, the subjects comprised under first, mineral veins and metalliferous deposits, their mode of occurrence, origin, and classification; second, the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, manganese, antimony, etc.; and (third) the non-metallic minerals, as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fertile materials, mineral pigments, gems and ornamental stones, building stones, limes and cements, and mineral waters.

Paleontology is treated as a branch of geology, with special reference to its use in stratigraphy and correlation. As an introduction to the subject, representatives of the principal invertebrate types are studied. The successive faunas are then taken up, and the most characteristic forms are studied in connection with the distribution and stratigraphy of the sedimentary rocks of each period.

GERMAN.

PROFESSOR SCHOENFELD, Head of Department.

1. Accurate training in elementary grammar: pronunciation and translation from English into German; exercise in conversation; readings from the easier German prose and poets. Two hours.

2. More extended course in German syntax and principal difficulties of the language, idioms, etc.; extensive translations

into German; selected stories; Gore's Science Reader, fourth edition, alternating with Braudt and Day's Science Reading; one or two classics. Two hours.

3. Study of idioms, synonyms, and Sander's *Hauptschwierigkeiten der deutschen Sprache*; special preparation for scientific professional work; Helmholtz on Goethe's work in natural history; edition of Seidensticker; Humboldt's *Kosmos*; critical studies of German classics; lectures on German literature. Two hours.

4. A special course in German training for advanced students in the Historic and Economic Departments. Schoenfeld's *German Historical Prose*, Ranke edited by H. Schoenfeld, and the standard works of German historians and economists will be read. Two hours.

5. An elective course in German conversation will be instituted from the start and conducted with systematic gradation for students of all grades.

HISTORY.

PROFESSOR FARQUHAR, Head of Department.

1. American History. Text books: Channing, Eliot, Fiske, Johnston. Reference books: Bancroft, Adams, Von Holst, McMaster, Eggleston, Rhodes. Two hours.

2. Ancient History. Text-book: Myers. Reference books: *Ancient Authors* and *Standard Ancient Histories* generally. Chief attention to Greece and Rome, but Asiatic and Egyptian civilizations reviewed. Two hours.

3. Mediæval History. Text books: Myers, Brice, Church. Reference books: Gibbon, Hallam, Guizot. Two hours.

4. Modern History. Lecture course. Text-book: Myers. Two hours.

5. English History. Text-books: Airy, Green. Reference books: Freeman, Froude, Macaulay. Two hours.

6. Bible History. Lecture course. Reference books: Ancient History generally, with Ewald and Renan. Two hours.

Instruction in this department is given both by text books and lectures. The method is rational and comparative rather than precise and mechanical; the course of human progress and development, the growth of institutions and civilization, receives more emphasis than separate facts. Essay work is required. The unequalled facilities for historical research afforded by the Capitol of the Nation are held in view of the classes.

LATIN AND GREEK.

Latin.

PROFESSOR CARROLL.

ASSISTANT PROFESSOR DALES.

1. Elementary Latin. A thorough drill in forms is given. This is facilitated by constant practice in translating from English into Latin and Latin into English. Text-book. Collar and Daniell's First Latin Book. During second term selections from Greenough and D'Oge's Second Year Latin Book are read. Two hours.

2. Nepos and Caesar. A thorough drill in syntax is given. Prose composition once a week. Two hours.

3. Selected Orations of Cicero. Careful study of periods of Cicero. Lectures on Roman Oratory. Two hours, first term.

Virgil. An effort is made, through the study of versification and poetical usage, to get an appreciation of the poetry of Virgil. Two hours, second term.

Prose composition throughout the year.

4. Cicero's De Senectute, Odes of Horace. Special attention is given to scansion. Several of the odes are memorized. Two hours, first term.

Livy. Books I and II, or XXI and XXII. Study of early history of Rome or of Second Punic war. Two hours, second term.

Prose composition throughout the year.

5. Selected Letters of Pliny, Satires and Epistles of Horace. These satires and epistles are read which best illustrate Horace and his time. Two hours, first term.

Tacitus, *Germania* and *Agricola*, Selected Letters of Cicero. Careful attention given to peculiarities of style of Tacitus. Prose composition. Two hours, second term.

6. Comedy. Plautus *Captivi*, Terence (*Phormio*). Study of early Latin. Lectures on relation of Roman comedy to Greek comedy. Two hours, first term.

Lucretius, *Selections*. Brief study of the philosophy of the poem. Two hours, second term.

Courses 1, 2, and 3 do not count for a degree.

Classical Archaeology.

PROFESSOR CARROLL.

For a proper appreciation of the language, literature, and history of Greece and of Rome, some knowledge of ancient life and art is essential; hence the following cycle of courses in classical archaeology, extending over a period of three years, is offered. Each course consists of weekly lectures illustrated by maps, plans, photographs, and lantern slides, supplemented by a prescribed course of reading and the preparation of papers on special topics. The work constitutes a one-hour elective.

1. Athens and Rome. A study of the history, topography, and monuments of the chief centers of ancient life. One hour (1903-1904).

2. Greek and Roman Private Life. A study of the ancient house, its architecture, furniture, and ornamentation; family life; education and amusements; dress, arms, and armor; religious festivals, rites, and ceremonies and other aspects of Greek and Roman life. One hour (1902-1903).

3. Introduction to Classical Archaeology. An elementary course in Greek and Roman architecture and sculpture and other branches of archaeology. One hour (1901-1902).

In all these courses considerable use will be made of the illustrative material accessible in the Corcoran Gallery of Art, the Smithsonian Institution, and the Halls of the Ancients.

Greek.

ASSISTANT PROFESSOR DALES.

1. Elementary Greek. The thorough mastery of the forms is the object of the first year's work. Constant practice is afforded in translating from Greek into English and from English into Greek. An outline of Greek syntax is acquired. During the latter part of the year the first book of the *Analasis* is read. Text-books: White's *First Greek Book*; Goodwin's *Analasis*. Two hours.

2. First half year, *Analasis*, Books II and III, accompanied by a more thorough study of syntax and review of forms. During the second half year the first three books of the *Iliad* are read, with some study of the origin and development of Epic Poetry. Two hours.

3. First half year, further study of Epic Poetry, accompanied by the reading of a portion of the *Odyssey*. The second half year is devoted to Herodotus. A careful study of the dialect is made and some attention is paid to the origin and development of History. Two hours.

4. Greek Oratory. The origin and development of Oratory among the Greeks is fully traced, and especial emphasis is placed upon its importance in any historical study of Greek style. Selections from various orators, especially Lysias and Demosthenes, are read and discussed in class. Two hours.

5. Greek Drama. The work in this course is more advanced, and deals largely with matters literary and historical. Selections from Attic tragedy and comedy are read and discussed. Two hours.

All courses are accompanied by study in grammar and composition.

Courses 1 and 2 do not count for a degree.

Literature and Linguistics.

6. Greek Literature: A course of lectures tracing the history of Greek literature to the close of the classical period. This course is designed not merely for Greek students, but for all who are interested in literary studies. A knowledge of Greek is not necessary. One hour.

7. Linguistic Science. A course of lectures, with some use of a text book in the latter part of the year. The course is designed for students of either ancient or modern languages. The general principles of Linguistic Science are outlined and illustrated, and sketches are given of the various languages of the Indo-European family. No knowledge of Greek or Latin is necessary. One hour.

8. Elementary Sanskrit. A fair knowledge of either Greek or Latin is presupposed. The fundamental principles of Sanskrit grammar are set forth by the use of a grammar and by informal lectures. The latter part of the year is devoted to the reading of easy narrative. Two hours.

LIBRARY SCIENCE.

PROFESSOR SPOFFORD, Head of Department.

ASSISTANT PROFESSOR PRESNELL.

ASSISTANT PROFESSOR WILLIAMS.*

ASSISTANT PROFESSOR CUTLER.

MISS GIBSON, Instructor.

PROFESSOR SPOFFORD:

1. The Library Instruction Field; History and Art of Printing; The World of Books; History of Publishers; Book sellers and Book-buyers; The Genesis of Libraries; Uses of Libraries; Titles of Books; Bibliography, (1) Universal, (2) British, (3) American. One hour a week.

2. Bibliography, (4) European, (5) Literature of Subjects; Equipment of Librarians; Various Habits of Reading; Memory--Uses and Aids; Book Selections for Libraries; Book binding; Care of Books; Pamphlets and Periodicals; Rare Books and Common Books; Illustrated Literature; The Library and the Press. One hour a week.

Each topic is treated in one or more lectures, as its relative importance may demand. These courses are given in alternate years.

*Absent on leave after January 1.

ASSISTANT PROFESSOR PRESSNELL:

3. Elementary Classification; Shelf Arrangement; Shelf Department Work. Lectures on systems of classification, supplemented with practical classification of books according to the Decimal and Cutter systems.

Library Administration. Accounts, stock-taking, care of supplies, and statistics of readers, etc.

Library Administration. Loan systems; charging systems; inter-library loans. Bibliographies of the literature on the subjects.

Rules. Access to shelves; librarian's reports examined and reviewed; the relation of librarian to trustees and to the public; library buildings, furniture, and fittings; light, heat, and ventilation, etc. Bibliographies on these subjects.

Two hours a week for first-year students.

4. Organization of Libraries. Library legislation, associations, clubs, commissions, library schools. Traveling libraries, etc. Bibliographies on these subjects.

Reference Work. Readers' guides. Indexes and indexing, with practical indexing of books. Helps for readers and students, etc.

Preparation of theses on various subjects in library economy, with bibliography of the literature on the subject.

Two hours a week for second-year students.

ASSISTANT PROFESSOR WILLIAMS:

ASSISTANT PROFESSOR CUTLER:

MISS GIBSON:

5. Author Cataloguing. The students are carefully trained to make all the entries necessary for an author catalogue.

Order Department Work. Order slips, order and serial blanks, gift list. Inspection and purchase of books. Reception, checking bills, collation, preparation for shelves—*i. e.*, stamping, labeling, etc. Accessioning.

Subject Cataloguing. Instruction on methods.

Dictionary Cataloguing. The same books are used as in the "author cataloguing," but are here selected with reference to subject-matter.

Reference books useful to cataloguers in finding full names and in deciding subject headings.

Shelf Department Work. Assigning book numbers according to Cutter and Edmunds' tables. Shelf-listing on cards and on large and small sheets.

A select list of books is chosen for each lesson, the students being required to catalogue each set. The work is handed in, corrected, returned, and preserved by them, thus forming a model for each student.

Two hours a week for first year students.

6. Comparative Study of Catalogue Codes. Twenty points in ten different codes of cataloguing rules are studied comparatively. Study of some important European and American catalogues - *e. g.*, Bibliothèque Nationale of Paris, Königliche Bibliothek of Berlin, British Museum Library, Boston Public Library, Boston Athenaeum, etc.

The equipment and cost of a card catalogue, including distribution of cards from a central bureau.

The printing of catalogues, of finding lists, of accession lists, etc.

Lectures on cataloguing manuscripts, incunabula, and rarities. Advanced list of reference books useful to cataloguers.

In addition to the theoretical study of the subject, a part of each evening is devoted to the consideration of the treatment of entirely new books. Each student is required to prepare independently a certain number of them for the shelves, thus acquiring actual experience in accessioning, labeling, classifying, shelf-listing, cataloguing, etc.

Two hours a week for second-year students.

(Students in Library Science are given an opportunity to obtain practice in typewriting.)

MATHEMATICS.

PROFESSOR HODGKINS, Head of Department.

MR. HODGKINS, Instructor.

(A.) Elementary Algebra: Three hours. Bowser's College Algebra.

(B.) Plane Geometry: Three hours. Gore's Plane and Solid Geometry.

1. Algebra. Three hours. Bowser's College Algebra.
2. Geometry. Two hours. Gore's Plane and Solid Geometry.
3. Trigonometry. Three hours, first term. Crockett's Plane and Spherical Trigonometry.
4. Analytic Geometry. Three hours, second term. Bowser's Analytic Geometry.
5. Calculus. Two hours. Bowser's Calculus.
6. Differential Equations. Two hours. Johnson's Differential Equations.
7. Least Squares. Two hours, ten weeks.
A lecture course, with references to Merriman's Least Squares and Wright's Treatise on the Adjustment of Observations.
8. Determinants. Two hours, ten weeks. Wedd's Determinants; Hanus' Determinants.
9. Quaternions. Two hours, ten weeks. Hardy's Quaternions.
10. Analytic Geometry of Three Dimensions. Two hours, ten weeks.
11. Theory of Equations. Two hours, ten weeks.
12. History of Mathematics.

Courses *A* and *B* are preparatory courses, intended for beginners, and do not count for a degree. It is expected that students entering courses 1 and 2 will have studied plane geometry, and through quadratic equations in algebra; but as a thorough and ready knowledge of these elements is essential to a proper understanding and mastery of the subsequent courses, and as many who have not studied mathematics for some years wish to enter these classes, it has been customary to devote the first part of the year to a careful but rapid review of some of the earlier parts.

Courses 7 to 12 are short lecture courses, and, while intended especially for students who wish only the elements of the subjects, they serve as preparation for the advanced courses described under the School of Graduate Studies. Usually only three of these six courses will be given each year.

MECHANICAL ENGINEERING.

PROFESSOR AYRES, Head of Department.*

MR. FEDELER, Instructor.

1. Machine Design. Proportioning of the following machine parts: Fastenings, toothed and belt gearing, rotating and sliding pieces, bearings, and connecting rods.

Text-book: Klein.

Four hours, second term, Sophomore year.

Four hours, first term, Junior year.

2. Kinematics. Nature of mechanisms. Diagrams of the changes of position and speed in mechanisms.

Text-book: Kennedy.

Three hours, second term, Sophomore year.

Two hours, first term, Junior year.

3. Boilers. Location, construction, strength, and wear and tear of boilers.

Text-book: Peabody and Miller.

Two hours, second term, Sophomore year.

4. Thermodynamics. The steam engine and other heat engines.

Text-book: Ewing.

Three hours, Junior year.

5. Mechanical Technology. Shop visits. Examination of processes and appliances pertaining to pattern-making, molding, casting, forging, and finishing.

Four hours, Junior year.

6. Mechanics of Machinery. Graphical statics of mechanisms.

Text-book: Hermann-Smith.

Three hours, second term, Junior year.

7. The Mechanical Engineering of Power Plants.

Text-book: Hutton.

Three hours, second term, Junior year.

*Resigned February 1, 1902.

8. Machine Design. Theory of and calculations for a high-speed steam-engine.

Text-book : Klein.

Four hours, Senior year.

9. Mechanics of the Machinery of Transmission.

Text-book : Weisbach-Hermann.

Four hours, Senior year.

10. Measurement of Power. Practical work in indicating steam-engines, determining the evaporative efficiency of boilers, &c.

Five hours, Senior year.

METEOROLOGY AND ITS APPLICATIONS

PROFESSOR ABBE, Head of Department.

ASSISTANT PROFESSOR MARVIN.

The courses in Meteorology in the Scientific School and the School of Graduate Studies are designed to give a complete review of the present condition of that science, and they are necessarily extended through five years, but the lectures are so arranged that each of the five divisions is complete in itself. Each course presents a detailed view of its branch of the subject, such as may be desired by students who need this information in connection with other branches of knowledge to which they are specially devoting themselves.

In addition to the lectures, the professor devotes one hour a week to "quiz" class, in which, by questions and answers, he seeks to remove any difficulties that remain.

1. Observational Meteorology. The student will keep a personal diary of the meteorological conditions. The lectures will relate to instruments and methods of observing, computing, and graphic presentation of results. Two hours.

2. General Climatology. The lectures will cover all the elements of climate and some of the physical processes explaining the phenomena, the theory of probabilities so far as it is applied to climatology, and the determination of the coefficients or other factors that represent climatological peculiarities. Two hours.

3. Special subjects in climatology and meteorology and the relation of climate to zoology, vegetation, anthropology, hygiene, and human industries. Two hours.

PHILOSOPHY.

PROFESSOR KIRBY, Head of Department.

1. Psychology. The intention of the course is to explain to beginners the meaning and interest of philosophical study, and to treat systematically the principles and elements of psychology. Some attention is paid to the ethical and pedagogical application of psychology. Baldwin's *Elements of Psychology* is used as a basis, to be supplemented by lectures and discussion, with references to other books. Two hours.

2. Logic. Lectures introductory to philosophical study; principles of logic, formal logic. Jevon's *Lessons in Logic* is used. Two hours.

3. Ethics. The theory of ethics treated constructively, with some attention given to the problems of practical ethics. Lectures, private reading, discussion, and theses. Two hours.

PHYSICS AND ELECTRICAL ENGINEERING.

PROFESSOR WOLFF, Head of Department.

MR. BETTS, Instructor in Electrical Engineering.

MR. FISCHER, Laboratory Instructor.

1. General Physics. First term: Mechanics, Sound, and Heat. Second term: Light, Electricity, and Magnetism. Text-book: Watson's *Principles of Physics*. Three hours.

2. Elementary Mathematical Theory of Electricity and Magnetism. Text-book: S. P. Thompson's *Elementary Lessons in Electricity and Magnetism*. Three hours, first term, Junior year.

3. Dynamo-electrical Machinery. Text-book: Hawkins and Wallis, *The Dynamo*. Three hours, second term, Junior year.

4. Advanced Mathematical Theory of Electricity and Magnetism. Text-book: Gerard's Electricity and Magnetism translated by Duncan. Three hours, first term, Senior year.

5. Dynamo-electric Machinery. Advanced course. Text-books: S. P. Thompson's Dynamo electric Machinery and Poly-phase Currents; Jackson's Alternating Currents. Three hours, second term, Senior year.

6. Technical Applications of Electricity. A course covering the most important applications of electricity: Telephony, Telegraphy, Lighting, Power Transmission, Electro metallurgy, Electrochemistry, etc., with special attention to the latest methods adopted. Two hours, Senior year.

Arrangements will be made for special lectures on the above topics by members of the examining corps of the United States Patent Office, and by others in close touch with the most recent developments.

7. Advanced Physics. A mathematical course intended to acquaint the student with the methods of mathematical physics, and as an introduction to the more advanced courses in the School of Graduate Studies. Three hours, second term.

8. Physical Chemistry. An elementary course with special reference to the modern theories of solutions and electro-chemistry. Two hours.

9. Elementary Laboratory Work. Fundamental measurements and experiments in all branches of Physics. Three hours, both terms, or five hours, second term.

10. General Electrical Measurements. A laboratory course for Juniors in the Electrical Engineering Course. Six hours. Text book: Carhart and Patterson's Electrical Measurements.

11. Advanced Laboratory Work for Juniors. This includes such experiments as those described in the laboratory manuals of Glazebrook and Shaw, Stewart and Gee, and Nichols. Six hours.

12. Advanced Laboratory Work for Seniors in the Electrical Engineering Course. Dynamo and motor-testing, determinations of characteristics, etc. Six hours.

13. Advanced Laboratory Work for Seniors in the course in Physics and Mathematics.

14. Inspection of Electric Light and Power Plants, etc. In and around Washington and Baltimore are a number of modern electric lighting and street railway plants, telephone exchanges, telegraph operating rooms, etc., which afford students of electrical engineering an excellent opportunity to familiarize themselves with nearly all types of electrical apparatus in use. The visits are followed by a class discussion.

Occasional meetings are held at which papers on special subjects are read by advanced students.

For a description of the apparatus available for tests in the electrical engineering laboratory, see page 92.

POLITICS AND ECONOMICS.

PROFESSOR CRAVEN, Head of Department.

DR. WRIGHT, Lecturer on Statistics.

MR. McNABB, Instructor in Business Law.

DR. HOUWICH, Instructor in Statistics.

Business Law.

1. Practical Business, Commercial and Banking Law :

(1.) Business Law in general :

Principles on which it rests.

(2.) The Law of Contracts :

a. Agency, Partnership, Corporations, Real Estate, Personal Property, etc.

b. Commercial Paper :

Rights and Duties of Parties to Bills, Notes, Drafts, and Checks.

(3.) Descent and Distribution of Property :

Duties of Executors, Administrators, Trustees, Guardians, etc.

(4.) Business Forms and Practice. Two hours.

Economic Development.

2. The History of Economies among Ancient, Mediaeval, and Modern Peoples down to A. D. 1500. Two hours, 1903-1904.
3. Modern Industrial and Commercial Changes and Legislation since A. D. 1500. Two hours, 1902-1903.

Politics and Administration.

4. Historical and Practical Politics—Rise and growth of National, State, and Municipal government in the United States. Two hours, 1903-1904.
5. The State: Theories and Forms of Government, Ancient and Modern. Two hours, 1902-1903.

Statistics.

6. History and Methods of Statistical Investigation: A numerical study of social relations, with particular regard to the population, industries, and commerce of the United States and other leading nations. Two hours, 1902-1903.

History and Science of Finance.

7. Money, Coinage, Credit, and Banking: Government Paper, U. S. Money. Two hours, 1903-1904.
8. Public Expenditure, Public Revenue, Taxation, Financial Administration, Budgets and Audits. Two hours, 1902-1903.

Political Economy

9. The Historical Development of Political Economy. Two hours, 1902-1903.
10. The Principles of Economics. Two hours, 1903-1904.

Sociology.

11. Social Integration and Disintegration in Mediaeval and Modern Europe. Two hours, 1902-1903.
12. Individualism, Socialism, and the Social Problems of State and Municipal Administration. Two hours, 1903-1904.

ROMANCE LANGUAGES.

PROFESSOR HENNING, Head of Department.

Mr. MAILLET, Assistant in French.

French.

1. Grammar, translation and sight-reading, drill in pronunciation. Fraser and Squair, Elementary French Grammar and Reader (students expecting to continue the study of French are advised to buy the *complete* grammar). History and fiction, scientific French, colloquial French. Two hours.

The primary object of the course is to enable students to read understandingly ordinary French, and, as a means to this end, stress is laid on drill in grammar and translation. Students desiring additional practice in the spoken language are advised to take also course 4 in conversation.

2. Continuation of grammatical study and composition. Discussion of interesting phases of French life and history. Translation and reading of fiction, history, and drama. Mérimée, *Columba*; Sarcy, *le Siège de Paris*; Beaumarchais, *le Barbier de Séville*; Halévy, *un Mariage d'Amour*. Two hours.

3. Outline course of French Literature, 17th, 18th, and 19th centuries. Lectures on authors read. Translation, discussion of subject-matter and form of books. Fiction, history, drama, poetry: texts to be selected. Two hours.

4. French Conversation for beginners. (M. Maillet.) Two hours.

See note under Course 1. The course is so arranged that new members may conveniently enter February 1.

5. French Conversation for advanced students. (M. Maillet.) Two hours.

Spanish.

6. Elementary Course. Grammar, composition, translation, and sight-reading. Edgren's Elementary Spanish Grammar. Ramsey's Elementary Spanish Reader. Alarcón, *El Capitán Veneno*. Other texts to be selected. Two hours.

7. Advanced Course. Grammar and composition, continued; translation and sight reading. Fiction, drama, poetry. Lectures on the authors read. Valdes, *Los*; Galdos, *Doña Perfecta*; Moratin, *El Si de las niñas*; Ford, Spanish Anthology.

8. Spanish conversation for beginners; similar to Course 4 in French. Two hours.

Italian.

9. Elementary Course. Grammar, composition, translation. Grandgent's Italian Grammar. Bowen's First Italian Readings. Farina, *Punto di vista*; Gordini, *un Giallo Accidente*; de Amicis, *un Incontro*, etc. Two hours.

10. Advanced Course. Composition and translation. Grandgent's Italian Composition. Fiction, drama, poetry. Texts to be selected. Two hours.

ZOOLOGY.

PROFESSOR BARTSCH, Head of Department.

1. Zoology. This includes lectures and laboratory work. The lectures in their scope cover all the branches of the animal kingdom, from the unicellular organisms to mammals, and correlated with these lectures is the study and dissection of type specimens in each group. This course is intended to familiarize the student with biological characters, classificatory laws, and the general principles of evolution.

Lecture, one hour.

Laboratory, two hours.

2. Zoölogy. Continuation of the work mapped out in course 1, special attention being given to comparative morphology and histology of animal tissues.

Lecture, one hour.

Laboratory, two hours.

3. Ornithology. In this course special attention is directed to the study of the birds of the District of Columbia. Frequent field excursions are made to familiarize the student with the haunts and habits of these forms.

Lecture, one hour.

Laboratory, two hours.

Special courses for teachers in the public schools and others desiring to take up special or advanced lines of work may be arranged upon consultation with the professor.

The collections of the United States National Museum and the Smithsonian Institution are consulted in connection with all these courses.

MECHANICAL AND ELECTRICAL ENGINEERING LABORATORY.

The Mechanical Engineering Department is provided with a valuable collection of machine parts, illustrating the best modern practice, such as shaft hangers, pedestals, valves, jacks, friction clutches, &c.

It is expected that arrangements will be perfected during the present session to provide the necessary additional testing machines and instruments to give a laboratory course in engineering practice. The lighting and heating plant now installed in University Hall forms an excellent basis for such work.

A 25 K. W. direct-current Westinghouse dynamo, directly connected to a Westinghouse gas engine of the latest type, has been installed. The dynamo was specially constructed to adapt it to experimental requirements, generating both direct and polyphase alternating currents. The surplus power of the Westinghouse gas engine will be utilized in driving smaller dynamos of various types for testing purposes.

The engine is one of the latest and most improved types of gas engines, being a two-cylinder single-acting engine, giving an explosion every revolution, and an exceptionally close regulation. Provision is made for testing the efficiency of each machine independently, or the combined unit under a great variety of conditions.

In addition to the above, an experimental electrolytic refining plant has been installed, current for which is furnished by a Crocker & Wheeler motor dynamo, giving 150 amperes at 6 volts. Special investigations in electrometallurgy are in contemplation.

The laboratory is equipped with direct and alternating current generators and motors for experimental purposes, and with the necessary measuring apparatus, direct and alternating current ammeters and voltmeters, galvanometers, standard resistances, standard cells, etc.

UNIVERSITY LIBRARY.

The Library is open every day from 9.15 a. m. until 10 o'clock p. m. The reading-room is supplied with the most important magazines and reviews.

UNIVERSITY LECTURES.

Students of the Corcoran Scientific School are admitted without further fee to the University Lectures; and, when qualified to profit by them, they may secure admission to other lectures given in the Hall of the University by applying to the Dean.

COLLEGE COURSES.

Full-course students paying the regular fee in the Scientific School will be permitted to take courses in the College without the payment of additional fees, except the usual laboratory and matriculation fees, provided the total number of periods do not exceed twenty per week, and provided that such selection of courses be approved by the Faculty of the College and the Dean of the Scientific School.

ORATORY.

Registered students in the Corcoran Scientific School will be admitted to the special course in Oratory in the Schools of Law on the recommendation of the Dean of the Corcoran Scientific School and with the approval of the Dean of the Schools of Law. A special fee of fifteen dollars is charged for this course.

EXAMINATIONS.

Examinations are conducted under the following rules of the Board of Trustees:

"Examinations for degrees in the Columbian College and the Corcoran Scientific School shall be closed at least three weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported by the Faculty of each to the President of the Faculties at least two weeks before the date of Commencement."

"Examinations for prizes in each of the said departments shall be closed at least three weeks before the end of the scholastic year, and the names of the successful candidates for either shall be reported at least two weeks before the date of Commencement."

"No student shall be admitted to an examination for promotion from a lower to a higher class, or to a final examination, who is in arrears for tuition and whose name has not been certified to the Dean of the School proposing to hold an examination by the Treasurer."

Professors and instructors will require students entering examinations to present their certificates from the Treasurer before permitting them to be examined.

REQUIREMENTS FOR DEGREES.

A definite value or weight is assigned to the subjects taught, the unit being, in general, *one recitation a week for a year*, with a satisfactory examination sustained at the close; but this weight varies for laboratory, designing, and field work.

The Degree of Bachelor of Science is conferred upon a student who successfully completes one of the full courses offered, or other equivalent course, aggregating not less than sixty-eight units, which has been approved by the Faculty.

SCHOLARSHIPS.

Mary Lowell Stone Scholarship, founded as "a memorial to a woman student of science, from a woman, for women students of science," consists of a fund of two thousand dollars, the income from which is to be paid to needy women, students in the Coreoran Scientific School of The Columbian University, at the discretion of the Dean of said School.

Edward T. Fristoe Scholarship has been founded in memory of the first Dean and Professor of Chemistry of the Coreoran Scientific School. The income from this fund is not yet available.

The Carter Scholarships, founded by Mrs. Mary M. Carter in memory of her husband, Henry Harding Carter, consist of five scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

The Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for "the free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as having filled their time in the great steam manufactory establishments of the country may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

All awards of scholarships are made for one year only, but may be renewed. Applications for Scholarships should be filed with the Dean not later than September 15th.

PRIZES.

The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually to the student passing the best examination in the Department of Chemistry.

SCHMIDT PRIZE.—This prize was established by Mr. Fred. A. Schmidt, of Washington, in 1894, and is to hold good for a period of ten years. The prize consists of a pocket case of the finest Drawing Instruments. All students in full standing in the second year taking a full course in one of the departments of Architecture, Civil Engineering, Electrical Engineering, or Mechanical Engineering are considered applicants without further notice.

The prize will be awarded to that student passing highest in Descriptive Geometry and the second year mathematical studies, taken in common by all the students in the above-named four departments; Descriptive Geometry plates to count seventy-five (75) per centum, and twenty-five (25) per centum to be evenly distributed between the yearly examinations in Descriptive

Geometry and the second year mathematical studies taken in common by all four departments.

AMATEIS MEDAL.—Professor Louis Amateis offers a gold medal, to be given to the student who, graduating with the degree of Bachelor of Science in Architecture, obtains the highest relative standing in Fine Arts as applied to Architecture, Building Construction, and in Architecture.

MUTH PRIZE.—Geo. F. Muth & Co. offer a set of drawing instruments to the full-course student taking Machine Drawing who makes the highest average record in that subject and in the previous year's Mechanical Drawing.

Prize Awards, 1901.

Willie E. Fitch Prize.....Arthur Bertram Adams.
Schmidt Prize.J. D. Cleary.
Muth Prize.....Herbert Earl Stansbury.

ANNUAL TUITION FEES.

For courses not including laboratory work:

Courses in one Department.....	\$40 00
Courses in two Departments.....	75 00
Courses in three or more Departments.....	100 00

Laboratory courses:

Course 2 or 3 in Chemical Laboratory, including cost of material and apparatus.....	50 00
Laboratory Course in Chemistry (except 2 or 3).....	100 00
For chemicals used.....	25 00
Deposits (returnable) for breakage.....	25 00
Laboratory Courses in Assaying of Ores and Bullion..	40 00
For materials used.....	20 00
Elementary Course in Physical Laboratory.....	20 00
Advanced Course in Physical Laboratory.....	30 00
Laboratory Course in Mineralogy (for the year).....	60 00
For materials used.....	10 00
Material fee, Botany or Zoology.....	2 00

ANNUAL FEES FOR FULL COURSES OF STUDY LEADING TO THE DEGREE OF BACHELOR OF SCIENCE.

Freshman year (common to all courses)			\$100 00
Sophomore year, Course 1 (laboratory fees extra)			100 00
Junior	"	1	100 00
Senior	"	1	100 00
Sophomore	"	2	100 00
Junior	"	2	100 00
Senior	"	2	100 00
Sophomore	"	3	120 00
Junior	"	3	130 00
Senior	"	3	130 00
Sophomore	"	4	115 00
Junior	"	4	100 00
Senior	"	4	100 00
Sophomore	"	5	140 00
Junior	"	5 (deposit, \$10.00)	150 00
Senior	"	5 (deposit, \$10.00)	150 00
Sophomore	"	6	140 00
Junior	"	6 (deposit, \$10.00)	150 00
Senior	"	6 (deposit, \$10.00)	150 00
Sophomore	"	7	100 00
Junior	"	7	100 00
Senior	"	7	100 00
Sophomore	"	8	130 00
Junior	"	8	120 00
Senior	"	8	130 00
Sophomore	"	9	105 00
Junior	"	9 (deposit, \$10.00)	150 00
Senior	"	9	100 00
Sophomore	"	10	100 00
Junior	"	10	100 00
Senior	"	10	100 00
Sophomore	"	11	100 00
Junior	"	11	100 00
Senior	"	11	100 00

Sophomore year, Course 12	\$100 00
Junior " " 12	100 00
Senior " " 12	100 00
Sophomore " " 13	100 00
Junior " " 13	100 00
Senior " " 13	130 00
Sophomore " " 14	130 00
Junior " " 14	130 00
Senior " " 14	130 00
Diploma fee (final)	10 00

The tuition fees for special technical instruction not included in the above statement will be fixed when demanded, and will be determined partly by the number of students offering themselves in such work.

All fees are payable in advance, in quarterly installments, unless special arrangements be made with the Treasurer to suit the convenience of the student. *No deduction on account of absence will be made for less time than one quarter of a scholastic year.*

A student desiring to make any change in his course of study or to drop any study should inform the Dean of this fact at the beginning of the month and have the change, if approved, indorsed on his matriculation certificate. Students failing to conform to this requirement are responsible for the fees entered on their certificates until such notice is rendered.

ROOMS AND BOARD.

During the year 1901-1902 desirable rooms, convenient to the University buildings, have been offered at prices ranging from \$5 to \$10 per month, and good board has been offered from \$15 to \$20 per month. A list of persons offering rooms and board can be obtained from the Registrar of the University.

For further information regarding the Coreoran Scientific School, application may be made to

HOWARD L. HODGKINS, *Dean.*

STUDENTS IN THE CORCORAN SCIENTIFIC
SCHOOL.*Candidates for Degrees.*

NAME	STATE	ADDRESS
Adams, Arthur Bertram	Md.	Treasury Department.
Adt, Edwin Alexis	D. C.	610 Louisiana Avenue.
Ahern, James	D. C.	721 I Street, S. E.
Albert, Frederick Wilhelm	Pa.	3417 Holmead Avenue.
Allen, Nila F.	Ind.	115 4th Street.
Allison, Isaac	D. C.	Kendall Green
Anderson, Albert	Wis.	523 B Street, N. E.
Austin, Frank L.	Mich.	1519 O Street.
Ball, Henry Bryant	Ga.	Department of Labor.
Barndollar, Burton H.	Ill.	907 M Street.
Barr, James	Wis.	606 Ninth Street.
Bartley, Thomas A.	Md.	Department of Labor.
Beale, Carroll	D. C.	3182 P Street.
Beck, Henry Lucien	Texas	1005 8th Street.
Blakeney, Charles Garfield	D. C.	707 G Street, S. E.
Bogue, Henry, Jr.	Md.	14th & Spring Road, A. B. Johns Hopkins University.
Bouscaren, Will S.	Ky.	55 N. Y. Ave., N. E.
Boyd, William Alexander	N. C.	614 E Street.
Brearley, James Alfred	Pa.	306 10th Street, S. E.
Brown, Clifford Hudson	D. C.	Petworth.
Brown, Lewis Harris	N. Y.	1529 T Street.
Burrows, Alvin Todd	Iowa	1524 14th Street.
Burton, Ishmael	W. Va.	923 4th Street.
Burt, Adah L.	D. C.	610 D Street, S. W.
Cleary, J. D.	D. C.	612 22d Street.
Cole, Mary B.	D. C.	1126 13th Street.
Colestock, Harry Ludwig	Pa.	937 Mass. Avenue.
Collins, Harry Ellis	D. C.	44 C Street, N. E.
Craig, Sherman Montrose	Md.	1327 N Street.
Crocker, Howard De Cott.	Va.	Ballston, Va.
Davies, Robert Gardner	D. C.	306 I Street, S. E.
Dawson, Edward M., Jr.	D. C.	1752 S Street.

Name	State	Address
Depue, Raymond	D. C.	1130 6th Street.
Dieterich, Albert Edgar	D. C.	1209 E. Capitol Street.
Dodge, Victor L.	Iowa	421 6th Street.
Ed. B. Ed. M., Columbian University.		
Dowden, Eleanor C.	D. C.	29 K Street, N. E.
Dunstan, Edwin Vivian	D. C.	300 Mass. Ave., N. E.
Eddy, John R.	Mass.	3425 Holmead Ave.
Ellis, Harry L.	Ind.	146 C Street, S. E.
Fairbank, Clair Wesley	Minn.	3007 15th Street.
Faustman, William F.	D. C.	U. S. Patent Office.
Fleming, Thomas, Jr.	Va.	1763 Madison Street.
Gates, Otis H.	Fla.	113 4th Street, S. E.
Giles, Louis Edward	Mich.	1524 U Street.
Gordon, John Blake	D. C.	6 Cooke Place.
Graves, Sheldon H.	D. C.	1224 K Street.
Guerdmann, George Herbert	D. C.	Geological Survey.
Gwinn, T. R.	Md.	1225 Conn. Avenue.
Hanger, D. McCarthy	D. C.	2726 N Street.
Hardester, David	D. C.	529 12th Street, S. E.
Harley, George Foster	Ga.	1409 R. I. Avenue.
Huck, Wardlow	D. C.	917 19th Street.
Hughes, Henry Ellis	D. C.	315 B Street, N. E.
Jackson, Herbert C.	D. C.	742 18th Street.
James, Arthur Austin	Va.	
James, Charles Grant	Ohio	1244 10th Street.
Johnson, Harry Dow	D. C.	Library of Congress.
Jones, Calvin Wilbur	Iowa	C. & G. Survey.
Kane, James Burnham	D. C.	110 4th Street, S. E.
Keeler, Cora M.	N. Y.	184 Street, N. E.
Kemp, Silas V.	Md.	15 3d Street, N. E.
Kirk, George Ellis	Ohio	Pension Bureau.
Kleberg, Alfred Leon	Texas	214 N. Cap. Street.
Law, Leroy M.	D. C.	310 9th Street, N. E.
Lawton, Wm. Henry	D. C.	2024 H Street.
Little, Agnes L.	D. C.	710 A Street, N. E.
Little, Robert B.	Ohio	241 E Street, N. E.
Lowe, Henry E.	Va.	413 5th Street, N. E.
Lyman, Freeland Chew	D. C.	1710 Q Street.
Mallory, Simon Nathan	Mass.	603 Mass. Avenue.
Manning, Christian Arthur	Pa.	18 2d Street, N. E.

Name	State	Address
Marsh, Earl G.	Ohio	628 E Street, N. E.
Martin, Frederick Oskar.	Iddes	Dep't of Agriculture.
Matthews, James Muscoe, Jr.	D. C.	1109 17th Street.
Mattingly, Wallace E.	D. C.	708 N. C. Ave., S. E.
Maupin, John Warwick.	Va.	The London.
May, George T., Jr.	D. C.	2119 F Street.
McIntyre, Ous Little	D. C.	318 C Street.
Meads, Eugene.	D. C.	101 4th Street, N. E.
Meigs, Maud.	D. C.	325 2d Street, S. E.
Miller, Frank Tremain	Mich.	507 7th Street, N. E.
Mitchell, Warren M.	D. C.	506 M Street.
Morgan, John D.	Ohio	1538 Yale Street.
M. D. Connecticut University.		
Moss, William B.	R. I.	1008 10th Street.
Pack, Samuel Bernard.	Pa.	The Lexington.
Phillips, Adon D.	D. C.	Pension Bureau.
Pierson, William Thomas, Jr.	Fla.	315 5th Street, S. E.
Pistorio, Irene Mabel.	D. C.	626 B Street, S. W.
Rector, George Virgil.	Va.	515 6th Street.
Repetti, Joseph Sebastian.	D. C.	149 B Street, S. E.
Rhodes, Thomas Asaph, Jr.	D. C.	1106 I Street, S. E.
Richardson, Edward Elliott.	D. C.	400 7th Street, S. W.
M. D. Connecticut University.		
Ricketts, Murray C.	D. C.	129 Md. Ave., N. E.
Ringland, Arthur Cuning	N. J.	Dep't of Agriculture.
Ripley, Charles Wilson.	N. Y.	231 12th Street, N. E.
Rivenburgh, Bertram G.	N. Y.	1502 Vermont Ave.
Roberts, Edwin Ernest, M. D.	D. C.	621 E. Capitol Street.
Saegmuller, John Leonard.	Va.	134 Md. Ave., S. W.
Schultz, Harry Walter.	D. C.	1203 20th Street.
Seaton, R. H. Lyle	D. C.	636 8th Street, N. E.
Seltzer, Charles W.	Pa.	445 5th Street, N. E.
Sensner, George H.	D. C.	914 14th Street.
Sheets, William Stokes	D. C.	2239 13th Street.
Shinn, John B., Jr.	N. C.	1751 Madison Street.
Smith, Lloyd L.	S. D.	517 6th Street.
Snelling, Walter O.	Mass.	1217 I. Street.
Snider, Murray French	Ohio	The Augusta.
Stansbury, Herbert Earl.	Va.	Alexandria, Va.
Straub, Theo. G.	Ind.	330 A Street, S. E.

Name	State	Address
Sugg, Charles Rountree	N. C.	241 N. Capitol Street.
Summy, William Frank	D. C.	1228 S Street.
Thom, Will, Chester	D. C.	702 N. C. Avenue.
Topping, D. Le Roy	N. Y.	1913 Pa. Avenue.
Treipel, Emma M. V.	D. C.	1531 F Street.
Van Leer, Carlos Clark	Tenn.	1007 13th Street.
Wallace, Saida A.	D. C.	1425 Q Street.
Watts, George Alfred	D. C.	412 2d Street.
Watts, John Ogden	D. C.	412 2d Street.
Way, Lytle Floyd	Ohio	1523 1st Street
West, Sara	Germany	809 Savannah Street.
Wilson, Charles H.	N. Y.	Patent Office.
Wilson, Edward C.	N. Y.	Patent Office.
Wood, H. Burke	Ind.	1726 3d Street, N. E.
Woodward, Mark Rattenhouse	D. C.	123 N. Y. Avenue.
Zahn, Aaron B.	Colo.	War Department.

Special Students.

Alford, George H.	Miss.	Office And. for P. O. D.
Allen, Fanny May	Md.	945 Va. Avenue, S. W.
Alison, Matthew Lawson	Pu.	1520 9th Street.
Amnen, Caroline	D. C.	The Concord.
Amnen, Mathilde	D. C.	The Concord.
Anderson, Eva K.	D. C.	1496 Hopkins Place.
Averill, Margaret	Wis.	The Cumberland.
Bache, Arthur Wilbur	D. C.	1226 11th Street.
Barber, John	N. J.	128 A Street, N. E.
Barnesby, Walter R.	Ill.	409 6th Street, S. E.
Bassier, Ray Smith	Ohio	U. S. Nat'l Museum.
Baum, Willis M.	D. C.	712 B Street, S. W.
Beale, Helen M.	D. C.	1820 Kalorama Ave.
Bennett, Walter J.	Ohio	1248 Princeton Street.
Bewick, Mary M.	Mo.	The Litchfield.
Branch, Lester Van Noy	N. Y.	1304 Yale Street.
Brandenburg, Nellie K.	Pa.	915 French Street.
Brannigan, Robert Allan	D. C.	1481 Columbia Road.
Brewer, Elin Gilmer	Md.	The Lincoln.
Brewer, Kinsey	D. C.	229 12th Street, S. W.
Brouse, H. Grace	D. C.	1100 M Street.

Name	State	Address
Brown, Bertha W.	Md.	North Takoma.
Bryson, Herbert J.	Pa.	714 12th Street, N. E.
Buck, Mrs. Alice Morse.	Colo.	502 B Street, N. E.
Burt, Nellie Kathryn	Pa.	1406 L Street.
Baynitzky, Eleanor Caroline.	D. C.	1309 Columbia Road.
Camp, Oswald E.	D. C.	2603 Kalorama Ave.
Canton, Alfredo Gregorio.	Mexico	3943 P Street.
Chase, Enoch A.	D. C.	1837 10th Street.
Childs, Annie C.	D. C.	1126 13th Street.
Clark, Emily A.	N. Y.	457 M Street.
Cockrell, Allen V.	Mo.	1518 R Street.
Cockrell, Francis Marion, Jr.	Mo.	1518 R Street.
Coffin, Mrs. Mary B.	D. C.	229 Mass. Ave., N. E.
Cooney, Ellen Jeanette.	D. C.	500 F Street.
Coope, Harry.	Ohio	706 11th Street.
L. B. L. M., National University of Ohio.		
M. P. L., Catholic University.		
Corbin, Etta Amelia.	R. I.	151 S Street.
Crauz, Mrs. Ella.	N. Y.	114 Md. Ave., N. E.
Cross, Anne Gunnell.	D. C.	917 16th Street.
Cross, Elizabeth W.	D. C.	917 16th Street.
Crumb, Joe Atwood.	Ill.	611 Md. Ave., N. E.
Dana, Bertha L.	D. C.	319 C Street, S. E.
Davis, Mary Brewer.	D. C.	48 M Street.
De Camp, Maude Dyer.	D. C.	1817 K Street.
Deisher, Estelle E.	Pa.	712 16th Street.
Doonan, Margaret.	Ohio	325 F Street, N. E.
Edelstein, Samuel.	Wis.	1903 G Street.
Ellis, James B.	Mo.	1521 T Street.
Emory, Elizabeth.	D. C.	2123 F Street.
Ennis, Carroll Christopher.	D. C.	Hydrographic Office.
Essex, Frank B.	D. C.	321 16th Street, S. E.
Etheridge, Florence.	Mass.	478 3rd Street.
Everett, Nellie A.	Ohio	1002 8th Street.
Farnum, Emily Idah.	N. Y.	1637 10th Street.
Fleming, W. H. Irwin.	Va.	1703 Madison Street.
Fletcher, Frank Dexter.	N. Y.	1324 Q Street.
Florence, William G.	Ky.	635 G Street, N. E.
Flowers, Lula.	Ky.	128 E Street, S. E.

Name.	State.	Address.
Frank, Morton E.	Nebr..	238 8th Street, N. E.
Folkes, Lily Virginia.	Miss..	1302 R. I. Avenue.
Fray, Florence Virginia.	Va..	1312 Vt. Avenue.
Fryer, Ross L.	N. Y.	1519 M Street.
Gale, Sybil A.	Wis..	1461 Florida Avenue.
Gary, Kate Forrest.	D. C.	Takoma Park.
Glass, Roy Chester.	D. C.	1524 Columbia Street.
Golden, Eden.	N. Y.	1462 Binney Street.
B. S. Coleman University.		
Gray, Powell Fred.	Mo.	714 Q Street.
Griesheimer, Caroline Irene.	Ohio.	118 R Street, N. E.
Hager, Frank L.	Ohio.	513 4th Street.
Hall, Clarence.	D. C.	134 10th Street, N. E.
Hall, Evelyn M.	D. C.	626 G Street, N. E.
Hall, Frank Cadwalader.	D. C.	Library of Congress.
Hardy, Rose Lees.	D. C.	638 E. Capitol Street.
Haskell, Harry Southard.	N. Y.	601 N. C. Ave., S. E.
Haskell, Sadia.	Iowa.	The Lincoln.
Hastings, John Emery.	N. Y.	Room 46, Patent Office.
Heine, William Anton.	D. C.	Brightwood Avenue.
Helbig, Arthur Lee.	Md..	1742 7th Street.
Henke, Fred William.	Ohio.	537 Florida Avenue.
Herriott, Hallie.	D. C.	1842 15th Street.
Hiatt, Frank Haworth.	Nebr..	502 C Street, S. E.
Hickox, Birdette P.	Mich..	Treasury Department.
Hines, William Henry.	Maine.	1012 I Street.
Hinton, Mary Ellen.	Eng..	Naut'l Almanac Office.
Hoff, Frank W.	Miss..	Census Office.
Hogue, Roy L.	Mich..	637 I Street.
Houghton, C. Theresa Gertrude.	D. C.	1443 Binney Street.
Howell, Wheeler.	Ohio.	1441 11th Street.
Hoxton, Llewellyn Griffith.	Va..	1732 P Street.
Hummer, Elizabeth.	D. C.	638 E. Capitol Street.
Hyde, Elizabeth Peirson.	Maine.	1881 3d Street.
Jack, Olive Maude.	D. C.	311 C Street.
Johnson, Jerome Blakeslee.	D. C.	805 H Street.
Johnson, Kate Peninah.	Ind..	1414 K Street.
Johnston, Lacey Stuart.	D. C.	The Portner.
Kelly, Clyde Wetmore.	Minn..	1637 13th Street.
Klakring, Alfred.	D. C.	1137 N. J. Avenue.

Name	State	Address
Klotz, Anna Saunders.	N. J.	1400 M Street.
Kneesset, William Daniel.	D. C.	1241 8th Street.
Lamb, Archibald Cooper.	D. C.	1747 F Street.
Lamberton, Benjamin P., Jr.	D. C.	1619 N Street.
Lasky, Julia H.	D. C.	1450 Q Street.
Latimer, William J. Jr.	Md.	Anacostia, D. C.
Lawrence, Ethel Lee	Kans.	1204 M Street.
Layton, Florence Winifred.	D. C.	1404 L Street.
Leckie, Agnes Fulton	D. C.	328 C Street.
Lillis, Minnie Carville.	Ohio.	The Cumberland.
Little, Mary Edna	Md.	Kensington, Md.
Locke, John Dexter.	N. H.	Hotel St. Louis.
Long, John Arthur.	Ohio.	210 3d Street.
Lundy, W. Don	D. C.	808 N. C. Avenue.
Magee, Aviee L.	D. C.	2211 I Street.
Mallon, Winifred.	N. Y.	431 N. J. Ave., S. E.
Mareau, Guy B.	D. C.	1633 29th Street.
E. S. Columbian University.		
Martin, Rutherford B.	Va.	St. Elizabeth's.
Martin, Rhoda E.	Md.	912 Mass. Avenue
Maynard, Henry Warner	D. C.	1497 15th Street.
McCham, George Chandler, Jr.	D. C.	728 10th Street, S. E.
McClair, Charles	Kans.	Patent Office.
McCullough, Max.	Ill.	496 11th Street, N. E.
McGroarty, Lucina F.	Ala.	123 6th Street, N. E.
McKnew, Clifton A.	D. C.	2112 G Street.
McNeal, Elisabeth.	D. C.	1628 15th Street.
McNeil, Gordon Earl	Md.	Hyattsville, Md.
Merry, Agnes M.	Florida	1248 Kenesaw Ave.
Mewshaw, James P.	Md.	Navy Yard.
Meyers, Herbert W.	Md.	216 A Street, S. E.
Miller, Agnes.	D. C.	324 N. J. Ave., S. E.
Miller, Alvin W.	D. C.	2914 N Street.
Miller, Daniel Campbell.	Conn.	214 5th Street, N. E.
Mollat, Mary.	Ind.	1728 Concord Street.
Moon, Minnie.	Va.	32 Grant Place.
Moore, Felix T.	Ala.	1337 L Street.
Morgan, Eltonzo T.	W. Va.	1008 I Street.
Morris, Madeleine Preble.	Mass.	1008 24th Street
Morse, Ethel E.	D. C.	2112 R Street.

Name.	State.	Address.
Nelson, Tillie E.	Wis. . .	415 4th Street.
Newmyer, Alvin Leroy.	D. C. . .	601 E Street.
Newmyer, Edwin Jonathan. . .	Mo. . .	1748 Corcoran Street.
Nourse, Mrs. Agnes.	D. C. . .	1302 R I. Avenue.
Obear, Josiah J.	S. C. . .	The Lincoln.
O'Bryon, George Elmer.	N. Y. . .	1813 F Street.
O'Connor, William L.	Ky. . .	828 12th Street.
Ogg, Albert Edward.	Ill. . .	721 O Street, N. E.
O'Gorman, Margaret.	D. C. . .	211 A Street, N. E.
Osgood, Sarah Elsie.	Mass. . .	710 3d Street, S. E.
Ossire, Cora Amelia.	D. C. . .	2721 P Street.
Paige, Jason.	Md. . .	Chevy Chase, Md.
Peet, Elizabeth.	D. C. . .	Kendall Green.
Pentecost, Nellie R.	Ind. . .	222 Indiana Avenue.
Pettibone, Maud Elizabeth. . .	Pa. . .	733 10th Street, N. E.
Pratt, Isabel.	N. Y. . .	1628 Riggs Place.
Priest, A. May.	Pa. . .	259 N Street.
Prince, Sue W.	D. C. . .	419 Spruce Street.
Randall, Neva Kyle.	Cal. . .	810 9th Street, N. E.
Reed, Harry D.	Ga. . .	Treasury Department.
Reed, Theo. Warwick.	Md. . .	718 19th Street.
Reinke, Lottie.	Texas. . .	2 Iowa Circle.
Reynolds, James C.	Ind. . .	1320 N. Capitol Street.
Riddleberger, Harrison H., Jr. .	Va. . .	1374 Harvard Street.
Ridout, Edith Hieskell.	D. C. . .	1718 N Street.
Robey, Edgar Reed.	N. C. . .	26 Grant Place.
Rockwell, Henry Ensign.	D. C. . .	31 S Street.
Ruekert, William Frederick. . .	D. C. . .	317 5th Street, S. E.
Rutherford, Kathrine.	Ga. . .	1419 20th Street.
Ryland, T. J.	Ky. . .	1328 N. Y. Avenue.
Sanders, Mary.	Ind. . .	1002 11th Street.
Saunders, Marie K.	Okla. . .	The Cumberland.
Scherb, John G.	Va. . .	Cherrydale, Va.
Searle, Frank W.	S. D. . .	405 B Street, N. E.
Sellers, Mary Sterling.	D. C. . .	The Marion.
Sewall, Margaret L.	Minn. . .	1067 13th Street.
Sheckels, Theodore Francis. . .	D. C. . .	1340 10th Street.
Sheridan, Henry Caton.	Ia. . .	Sun Building.
Sherman, Caroline Baldwin. . .	Va. . .	1423 8th Street.
Shriver, Gertrude Ellicott.	N. Y. . .	1100 M Street.

Name	State	Address
Siemers, Marie Louise	N. Y.	612 M Street.
Siewers, W. Ledoux.	N. C.	1023 Vt. Avenue.
Simpson, Hendree Paine.	D. C.	1407 Yale Street.
Smith, Forrest Grant	Va.	614 A Street, N. E.
Smith, Mamie B.	Ky.	The Litchfield.
Solvom, Herbert Louis	Md.	Tenleytown.
Sparks, Marie Maud.	D. C.	145 N. C. Ave., S. E.
Speich, Emanuel, Jr.	Nebr.	414 T Street.
Starratt, Andrew Wilbur	Ky.	1524 14th Street.
Sterrett, Douglas B.	D. C.	1023 15th Street.
Steward, W. G.	La.	620 I Street.
C. E., Columbian University.		
Stoek, Faith G.	D. C.	3336 O Street.
Swett, Otis D.	D. C.	1334 G Street.
Thompson, George Lafayette.	D. C.	Anacostia, D. C.
Thompson, John Ambrose	D. C.	1723 H Street.
Thorwarth, Estella S.	D. C.	The Cumberland.
Turner, Edith Gertrude.	D. C.	414 B Street, N. E.
Turner, Emma Harper.	Ind.	1507 R. I. Avenue.
Tweedale, Linda Mary.	D. C.	1431 Howard Avenue.
Tyler, Clara H.	Ky.	11 5th Street, S. E.
Tyree, Amos	Ky.	1233 G Street, N. E.
Vollum, Paul E.	D. C.	The Cumberland.
Vorse, Norman Terrell.	D. C.	1527 O Street.
Wagner, Simon Peter.	Md.	Rockville, Md.
Waite, Jesse Cunningham	Ala.	1104 12th Street.
Wallach, Edna	Md.	1014 Mass. Avenue.
Ward, Annie.	N. Y.	1022 12th Street.
Ward, George Liggitt.	Mass.	2905 13th Street.
A. B., Yale University.		
M. A., Columbian University.		
Washington, Richard H.	Colo.	1311 M Street.
Wehh, Mabel Claire.	Mich.	310 D Street, N. E.
Weide, May.	D. C.	502 E. Capitol Street.
Weissenborn, Leo Julius.	Ill.	1736 17th Street.
Wellman, Ruth Elizabeth.	D. C.	1409 21st Street.
Welch, John Cleveland	Tenn.	134 A Street, N. E.
Whitecomb, Ralph H.	Wis.	2021 I Street.
White, Mabel Columbia.	N. C.	539 4th Street, S. E.
Whitney, Paul C.	D. C.	1517 Columbia Street.

Name.	State.	Address.
Wilson, Stella M.	N. Y.	612 M Street.
Wise, Helen D.	D. C.	617 P Street.
Woffley, Caroline F.	Ohio.	23 3rd Street, N. E.
de Wolant, Gregory.	Russia	Russian Embassy.
Wright, Annie Elizabeth	Wis.	1016 S. C. Ave., S. E.
Yeomans, Evelyn L.	Conn.	917 E. Capitol Street.
Youngs, Warren Willson	D. C.	912 G Street, S. W.
Youtex, Mabel Clare	Ill.	1800 Vernon Avenue.

Total 346

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President pro tempore.

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Emeritus Professor of Greek.

REV. SAMUEL M. SHUTE, D. D.,

Emeritus Professor of English.

JAMES HOWARD GORE, PH. D.,

Professor of Mathematics.

D. KERFOOT SHUTE, A. B., M. D.,

Professor of Neurology.

THEODORE N. GILL, PH. D.,

Professor of Zoology.

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Professor of Meteorology.

HERMANN SCHOENFELD, PH. D.,

Professor of German and of Continental History.

REV. JAMES MACBRIDE STERRETT, D. D.,

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EDGAR FRISBY, A. M.,

Professor of Astronomy.

WILLIAM T. HARRIS, LL. D.,

Professor of Philosophy.

THE COLUMBIAN UNIVERSITY.

EMIL A. DE SCHWEINITZ, Ph. D.,
Professor of Bio-Chemistry.

FRANK W. CLARKE, S. D.,
Professor of Mineral Chemistry.

HARVEY W. WILEY, Ph. D.,
Professor of Agricultural Chemistry.

REV. FRANK H. BIGELOW, L. H. D.,
Professor of Solar Physics.

GEORGE P. MERRILL, Ph. D.,
Professor of Geology.

HOWARD L. HODGKINS, Ph. D.,
Professor of Mathematics.

EDWARD FARQUHAR, Ph. D.,
Professor of Ancient and Church History.

LOUIS AMATEIS,
Professor of Fine Arts as Applied to Architecture.

FRANK A. WOLFF, Ph. D.,
Professor of Electrical Engineering.

JOSEPH C. HORNBLLOWER, Ph. B.,
Professor of Architecture.

C. F. MARVIN, M. E.,
Associate Professor of Meteorology.

ANDREW F. CRAVEN, Ph. D.,
Professor of Political Science.

EDWARD B. POLLARD, Ph. D.,
Professor of Biblical Literature and Secretary of the Faculty.

CHARLES C. SWISHER, Ph. D.,
Professor of American and English History.

SCHOOL OF GRADUATE STUDIES.

111

WILLIAM ALLEN WILBUR, A. M.,
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GUSTAV AYRES, M. E.,
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HERBERT LOUIS RICE, M. S.,
Professor of Astronomy.

CARROLL D. WRIGHT, LL. D.,
Professor of Economics.

MITCHELL CARROLL, Ph. D.,
Professor of Classical Philology.

HENRY A. PRESSEY, B. S.,
Professor of Civil Engineering.

MAX WEST, Ph. D.,
Associate Professor of Economics.

WALTER S. HARSHMAN, Ph. D.,
Professor of Applied Mathematics.

W. DAWSON JOHNSTON, A. B.,
Professor of Bibliography and Bibliology.

GEORGE N. HENNING, A. M.,
Professor of Romance Languages.

G. O. JAMES, Ph. D.,
Associate Professor of Applied Mathematics.

R. E. B. MCKENNEY, Ph. D.,
Assistant Professor of Botany.

OTIS T. MASON, Ph. D., LL. D.,
Lecturer on Anthropology.

FRANK ROY RUTTER, Ph. D.,
Lecturer on Economics.

BOARD OF DIRECTORS OF UNIVERSITY STUDIES.

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 WILLIAM ALLEN WILBUR, A. M., Professor of English.
 MITCHELL CARROLL, Ph. D., Professor of Classical Philology.

The School of Graduate Studies was established by order of the Corporation of the University at the annual meeting in 1892, and was opened for the reception of students on Thursday, the 5th of October, 1893. The eighth session begins Wednesday, September 24, 1902.

The School is opened each year with a public address by a member of the Faculty.

DEGREES.

The degrees of Master of Arts (M. A.), Master of Science (M. S.), Civil Engineer (C. E.), Electrical Engineer (E. E.), Mechanical Engineer (M. E.), and Doctor of Philosophy (Ph. D.) are conferred on members of the School of Graduate Studies under such regulations as may be established from time to time by the Board of Directors: but no graduate student is regarded as a candidate for any advanced degree until he has been admitted to such candidature by the Board of Directors of

University Studies. The conditions to be satisfied by candidates will be found on page 133.

COURSES OF STUDY.

The following courses are offered to students in the School of Graduate Studies. Candidates for the Degree of Doctor of Philosophy will be required to select their major subject from among those enumerated below, but the minor subjects may be chosen from among any offered in the University which may prove acceptable to the Board of Directors.

ANTHROPOLOGY.

DR. MASON.

Candidates for degrees in this department are expected to know as much of mineralogy, geology, geography, botany, zoology, chemistry, and history as is taught in colleges. Some familiarity with the classical languages is very desirable, and French and German are essential. Students should have a knowledge of anatomy and physiology. They should also have pursued a course in psychology, with especial reference to the study of physiology.

The special studies of the department comprise the following courses:

1. Study of the races of man.
2. The history of culture (*Kulturgeschichte*) as embodied in the languages, industries, art, social life, philosophy, and mythology of the various peoples of the earth.
3. The history of the past as revealed in the study of archaeology and folk-lore.

The works of Topinard, Ladd, Brinton, Peschel, Muller, Haeckel, Hovelacque, Keane, Tylor, Spencer, Morgan, Evans, Gomme, Ratzel, and Lang are used as texts, with readings in the journals of the Anthropological societies.

ARCHAEOLOGY: CLASSICAL.

PROFESSOR CARROLL.

Instruction is given in certain branches of Greek and Roman Archaeology, making use of the excellent opportunities which Washington affords. The Corcoran Gallery of Art has a large collection of plaster casts of Greek and Roman sculpture. The Halls of the Ancients offer considerable illustrative material for the study of classical architecture and art and of Roman private life, and the National Museum has various collections useful in the study of antiquity.

The following courses of study are offered:

1. Introduction to Classical Archaeology, an elementary course in Greek and Roman architecture and sculpture and Greek vases, and the bibliography of archaeology.

2. Topography of Athens. Reading and study of Pausanias' Description of Greece, Bk. I, ch. 1-30, together with a course of lectures on the Topography and Monuments of Ancient Athens.

3. History of Greek Sculpture. A systematic study of the various periods of Greek Sculpture, illustrated by photographs, lantern slides, and the casts of the Corcoran Gallery of Art.

4. The Private Life of the Romans. The subject of Roman life will be considered in the light of existing material remains, as reproduced by photographs, engravings, casts, and the Pompeian house in the Halls of the Ancients.

ARCHITECTURE.

PROFESSOR HORNBLOWER.

PROFESSOR AMATEIS.

Classical styles: Monumental architecture; Construction of buildings.

The thesis must embody the results of the complete study of a structure of elaborate and ornamental character.

ASTRONOMY.

PROFESSOR FRISBY.

A general knowledge of Descriptive Geometry and of Analytic Mechanics being presupposed, the University offers in this department for the degree of Doctor of Philosophy a reading course in the determination of orbits with special practice in computing, under the following heads.

1. The Theory of Computing the Parabolic Orbit of a Comet from Three Observations, with an ephemeris. Eneke's Memoir on Olbers' Method, *Abhandlungen*, Erster Band. Books of reference: Watson's Astronomy, Oppolzer's *Bahnbestimmung der Cometen und Planeten*.
2. The Theory of Computing an Elliptical Orbit, or any Conic Section, from Three or Four Observations. Gauss' *Theoria Motus*. Books of reference, as above.
3. An outline of the Method of Least Squares. Eneke, Chauvenet, Brunnow, Watson, Johnson.
4. The Theory of Special Perturbations, with Method of Integrating by Mechanical Quadratures. Eneke: *Abhandlungen*, Zweiter Band und Dritter Band. Books of reference, as above. The method of the variations of the six elements will be first taught. The other methods of Hansen and of rectangular coordinates will follow if needed.
5. The Theory of General Perturbations. Tisserand, *Mécanique Céleste*. An abstract should here be made for the initiation of the student into this subject. Books of reference: Laplace, *Mécanique Céleste*; Lagrange, *Mécanique Analytique*, and *Mémoires*; Leverrier, *Annals of the Paris Observatory*; Hansen, *Auseinandersetzung*, Pontécoulant, *Système du Monde*, etc.
6. General Spherical Astronomy. Chauvenet's or Brunnow's Spherical Astronomy.

PROFESSOR RICE.

7. On the construction and use of the American Ephemeris and Nautical Almanac. Embracing a complete discussion, both theoretical and practical, of all the important elements and data contained in this fundamental work. A practical course for computers.

8. Spherical and Mathematical Astronomy. A more general course than the preceding, covering the most important of the subjects discussed in Chauvenet's or Brunnow's works on Spherical and Practical Astronomy, and including such portions of Theoretical Astronomy such as Watson's as are not especially concerned with the determination of orbits.

9. On the Theory and Practice of Interpolation. A special course, including a full discussion of the properties of differences, the various formulae and methods of interpolation, tabular differentiation, and mechanical quadrature; also other important problems concerned with the tabular values of functions, for those desiring a special acquaintance with this fundamental and important subject.

10. A reading course in the History of Astronomy. Such works as Grant's History of Physical Astronomy, Clerk's History of Astronomy during the Nineteenth Century, etc., will be used as texts.

ASTRO-PHYSICS.

The University is authorized to announce that one or two students, if possessing special qualifications and prepared by their training to engage in astro-physical research, may be received into the Astro-Physical Observatory connected with the Smithsonian Institution. They will be chiefly employed upon investigations in radiant energy.

BIBLICAL LITERATURE AND SEMITIC
LANGUAGES.

PROFESSOR POLLARD.

Courses in this department are intended (1) for those who wish to specialize in Biblical and Semitic studies; (2) students

of language, that they may be better furnished with data for the study of comparative philology, phonetic laws, and the philosophy of language; (3) students of ancient history and archaeology; (4) students of ethics and theology; (5) those seeking more liberal culture.

1. Studies in the Hebrew Prophets. Lectures on the nature of prophecy; reading in the Hebrew, with historical side lights.

2. Hebrew Poetry—its form and contents. Its national, universal, and Messianic features. Readings in the Psalms.

3. Investigations in Hebrew History and Biblical Archaeology. As guide, McCurdy's "History, Prophecy, and the Monuments," writings of Sayce, Hommel, and others.

4. Studies in the Apostolic Age. Reference to Harnack, Ramsay, McGiffert, and others.

5. The Hebrew Language. Syntax and selected readings from the Books of Samuel.

6. The Cognate Semitic Languages. (a) Aramaic, Grammar and readings in the Books of Daniel and Ezra; (b) Arabic, Lansing's Manual and readings from the Quran; (c) Assyrian, Grammar and reading of selected cuneiform texts.

7. New Testament Greek. With consideration of Hebraic influence upon the "Common Dialect," and divergence from classic usage. Selected readings from the New Testament and from the Septuagint.

BIBLIOGRAPHY AND BIBLIOLOGY.

PROFESSOR JOHNSON.

The Professor exercises a general supervision over the bibliographic work done in this department and advises students as to the best methods of work and the accepted methods of presentation of results. Unusual opportunities are afforded students in this subject in the meetings of the Washington Library Association, which are held at stated intervals at The Columbian University.

BOTANY.

ASSISTANT PROFESSOR MCKENNEY.

The graduate work in Botany is carried out by means of the Seminar and Laboratory. The Professor gives direction to the reading and research of the students. Special attention is given to the following lines of botanical investigation:

1. Physiology.
2. Ecology and Geographical Distribution.
3. Cytology and Histology.

CHEMISTRY.

PROFESSOR MUNROE.

Courses of graduate study in Chemistry are offered to students according to their previous training and special aptitudes. Among the courses projected are certain researches upon explosive substances, analytical methods; the phenomena of deliquescence and efflorescence.

PROFESSOR CLARKE.

Professor Clarke offers to properly equipped students a course of research work on the constitution of the natural silicates, and also courses in the redetermination of atomic weights.

PROFESSOR WILEY.

Professor Wiley directs special researches in Agricultural Chemistry, provided that students properly trained in the elements of that science shall present themselves for advanced work.

PROFESSOR DE SCHWEINITZ.

Professor de Schweinitz offers a course in Bio-Chemistry. This course embraces, in addition to what is ordinarily called physiological chemistry, the following subjects:

1. A study of the products of the growth of germs, either in the animal body or upon artificial media.

2. The influence of these substances in causing disease and their relation to immunity.

3. The anti toxins and methods of their preparation.

ECONOMICS.

PROFESSOR WRIGHT.

1. Advanced Political Economy. A study of the science and of the theories of economic study, of economic progress, and of practical economic problems.

ASSOCIATE PROFESSOR WEST.

DR. RUTTER, Lecturer.

2. Public Economy and Administration. *a.* A comparative study of governmental activities. *b.* Principles and methods of taxation. *c.* A detailed examination of the United States Government, with occasional visits to the Departments for the purpose of viewing their operations under the guidance of public officials.

3. Municipal Economy. A study of municipal functions in various countries, and of the corresponding forms of municipal government. The actual experiences of cities in dealing with the problems growing out of the concentration of population will be compared with a view to determining how far and in what direction the modern tendency toward the extension of municipal activities is advantageous.

4. Laboratory Work in Statistics. Practical training in compiling, tabulating, and analyzing statistics, and in preparing schedules of inquiries, with occasional visits to the Census Office and other statistical bureaus, and lectures by specialists on the methods employed in particular investigations. This course is intended for students desiring to use the statistical method in individual research, as well as for those wishing to prepare themselves for positions in the civil service. Those who have

studied statistics in the Cooperan Scientific School or in other institutions should be prepared to take up in the statistical laboratory the particular subjects which interest them, without further preliminary drill.

5. Seminar in Comparative Legislation. Each member of the seminar is expected to make a thorough study of some phase of public control, and after reporting upon the experiences of various governments—national, state, or municipal, as the case may be—to prepare a bill, suitable for presentation to a legislative body, embodying the most approved principles and methods of dealing with the subject. Eminent publicists and economists from various parts of Europe and America frequently attend and address the seminar. Among those heard in 1901-1902 were Dr. Robert H. Whitten, Sociology Librarian of the New York State Library; Professor John R. Commons and Mr. William English Walling, of the staff of the Economic Yearbook; Mr. John T. Doyle, Secretary of the Civil Service Commission; Dr. Robert René Kuczynski, of Berlin, and Dr. Victor Graetz, of Vienna.

6. Seminar in Recent Industrial History. The reports of the Industrial Commission and of the Twelfth Census, in addition to the materials heretofore available, afford an unusual opportunity for studying the recent industrial development of the United States and obtaining a cross-section view of the industrial organization of the country at the close of the nineteenth and beginning of the twentieth century. Besides reports on topics assigned to members of the seminar, there are addresses from time to time by various specialists on the subjects under consideration. Among those heard during 1901-1902 were Professor Heinrich Waentig, of the University of Greifswald; Professor E. Dana Durand, Secretary of the Industrial Commission; Professor Henry R. Seager, of Columbia University; Mr. Charles E. Fitzgerald, Assistant Secretary of the Immigration Restriction League; Dr. Kate Hordaday Claghorn, Mr. S. G. Lindholm, and Mr. Willoughby Walling, of the staff of the Economic Yearbook.

7. Seminar in Social Therapeutics. A systematic study will be made of various classes of organizations for promoting social welfare. The regular work of the seminar will be supplemented by occasional visits to philanthropic institutions in and near

Washington, such as the National Junior Republic, the Hart Farm School, the new social settlement, and the offices of the Associated Charities, the Board of Children's Guardians, etc., and by explanatory addresses by persons actively engaged in philanthropic work.

ENGINEERING—CIVIL.

PROFESSOR PRIESLEY.

1. Water Supply. Details of water works. Study of surface and underground waters as sources of supply, with special reference to methods of purification.
2. Sewerage. Details of sewerage systems, with special reference to methods of sewage disposal.
3. Hydrology. Flow of rivers, rainfall, and the effects of topography, forests, etc., upon the run off of watersheds.
4. Irrigation.
5. Thesis, the subject of which is to be selected by the student and approved by the Professor of Civil Engineering.

ENGINEERING—ELECTRICAL.

PROFESSOR WOLFE.

Students having obtained the degree of Bachelor of Science in Electrical Engineering Course III, Corcoran Scientific School or its equivalent may receive the degree of Electrical Engineer upon satisfactorily completing a course of one year, embracing the following studies:

1. Advanced Laboratory work.
2. Design of Dynamo-electric Machinery.
3. Transmission of Electrical Energy.
4. A course of reading of engineering and electrical journals and weekly meetings for the discussion of engineering and electrical subjects.

5. Thesis work, embracing the complete project of an electrical plant for some municipal or industrial purpose, or some special research in applied electricity.

Students are recommended to take also Mechanical Engineering, Advanced Physics, Higher Mathematics, German, French, and Chemistry.

ENGINEERING—MECHANICAL.

PROFESSOR AYRES.

The course of study leading to the degree of Mechanical Engineer includes the following subjects: Steam engine, Zeuner's diagrams, gas engine, and mechanics of machinery. In addition, the students are required to do individual work in taking indicator diagrams and making engine and boiler tests. The following works indicate the range of subjects:

Riggs' Steam-engine; Zeuner's Diagrams; Clerk's Gas Engine. Weisbach Hermann's Mechanics of Machinery: Hoisting machinery, accumulators, cranes, locomotives, etc. Day's Indicator Diagrams and Engine and Boiler Testing. Weisbach-Hermann's Mechanics of Machinery. Pumps, pumping engines, blowing engines, compressors, and fans.

ENGLISH.

PROFESSOR WILBUR.

1. The History of the English Sentence.
2. The History of the English Paragraph.
3. Rhythm in Prose and Verse.
4. The English Language: Historical and Philological Studies.
5. English Literary Criticism: (1) A study of the principles of literary criticism, with exercises in the criticism of literature of varying types. (2) The history of English literary criticism from the sixteenth century.
6. The Arthurian Legends: A study of their expression, development, and significance in English Literature.

7. English Romanticism. The history of English romanticism, with particular reference to the beginnings of the romantic movement in the eighteenth century.

8. The Development of the English Novel.

9. The Works of Christopher Marlowe.

10. The Works of Shakespeare.

11. The Works of Tennyson.

12. Literary History of America. A survey of the whole field, and a critical study of some phase of literary development.

GEOLOGY.

PROFESSOR MERRILL.

This department offers a course of advanced study in Geology, both systematic and applied.

During the first year the student may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials, and to familiarizing himself with the literature of the subject. The utility of the various text-books is recognized, but a very large portion of the desired knowledge on any subject must be gained from special memoirs and from the current literature as it appears in numerous periodicals. The various sources of information, the most essential lines of work, as well as the most promising fields of investigation, are from time to time indicated by the instructor.

During the second year the student is expected to devote himself to some special investigation which shall serve as the subject of his thesis. The course is modified to suit individual cases, in order that the student may be restricted as little as possible in the exercise of personal taste, originality, and capacity for work.

GERMAN.

PROFESSOR SCHOENFELD.

1. The Literature of the Sixteenth Century. Braune's *Neudrucke Deutscher Literaturwerke*. Humanism and Reforma-

tion, with special reference to Italian and French influences. Historical basis after Voigt, Janssen, Ranke, Burckhardt, L. Geiger.

2. Literary awakening in Germany in the time of Frederick the Great; critical study of the literary centers—Leipzig, Zurich, Berlin. The Storm and Stress Period and the youthful works of Schiller and Goethe; critical investigation of Klopstock's Odes; the first three cantos of *Messias*.

3. History of the Second Classical Period. Lessing's *Laokoon*, *Dramaturgie*, *Literaturbriefe*; A study of German Critique. Detailed investigation of Schiller's and Goethe's works. Literary Germany at the death of Goethe 1832.

4. German Literature in the first half of the nineteenth century; its social and political aspects; essays, lectures, and collateral reading.

GREEK.

PROFESSOR HUNTINGTON.

For the Master's Degree one of the following courses is offered:

1. Herodotus and Thucydides.
2. Homer parts of the *Iliad* and *Odyssey* not read in the undergraduate course; and the Lyric Poets.
3. The Attic Orators.

For the degree of Doctor of Philosophy two of the following courses are offered:

4. Any two of the courses offered above for the Master's Degree except the one already pursued for that degree.
5. The Tragic Poets.
6. Plato or Aristotle.

Candidates for these degrees are required to pass a satisfactory examination not only in the authors read, but also (a) in Greek Composition; (b) in the Grammar and Philosophy of the Language; (c) in the History of Literature; (d) in Greek History and Archaeology. They are also required to present a thesis on some subject connected with Greek study.

HISTORY—AMERICAN.

PROFESSOR SWISHER.

1. Colonial History. Social, economic, and political conditions of English colonization in America. Constitutional differentiation incident to new environment. Union consummated through rebellion, independence through revolution.

2. Constitutional History:

(1.) Constitutional development traced through Colonial charters and "Articles of Confederation" until formulated in the Constitution of 1789.

(2.) Interpretation of the Constitution under the pressure of party issues through the period of division and reconstruction.

3. American Diplomatic History. A study from original sources of the more important negotiations with foreign powers from the diplomacy of the revolutionary period through the Alabama arbitration of 1872.

HISTORY—ANCIENT AND CHURCH.

PROFESSOR FARQUHAR.

1. Bible History. Frequent references to Oriental and Ancient History.

2. Athens, from Solon to Demosthenes. The leading Greek authors carefully considered, and the relations of Athenian to modern civilization pointed out.

3. Roman History to the fall of the Western Empire. The more prominent Latin authors consulted, and the transition from the ancient to the modern civilization followed.

4. History of Christianity. Study of the development of the Church, and its relation to the general progress of mankind. Frequent references to European history at large.

5. History of History. A study of the progress and phases of ancient and modern historical literature.

HISTORY—CONTINENTAL.

PROFESSOR SCHOENFELD.

1. The emerging of the Germanic, Romance, and Slavic races in European History. The Migration of Peoples. The Evolution of European States to the rise of the Hapsburg House. (Selections from the historical sources will be read and interpreted.)

2. The Holy Roman Empire from Rudolph of Hapsburg till the death of Maximilian I (1519), with special reference to *Kulturgeschichte*, and the first attempts at Church reform.

3. The Political Awakening in the Eighteenth Century. Causes of the French Revolution and the Napoleonic Empire.

4. The Annihilation and Reconstruction of Prussia (H. von Treitschke, etc.). The Building up of the Modern German Empire (H. von Sybel, etc.).

Special courses may be arranged, after consultation, with graduate students.

HISTORY—ENGLISH.

PROFESSOR SWISHER.

1. English Constitutional History. The evolution of constitutional government in England.

(1) Parliamentary usages developed under the Normans and early Plantagenets; in abeyance under the Tudors; triumphant under later Stuarts.

(2) The rise of party government under the Whig oligarchy of the Revolution until triumph of the democracy in the reforms of the nineteenth century.

2. Development of English Foreign Policy. England on the continent; policy of Wolsey realized under Cromwell and William of Orange; struggle for balance of power transferred to the colonies; the Eastern question.

3. England as an Empire. Evolution of the imperial idea; political situation in Canada, Australia, India, and South Africa; problems of imperial federation.

4. The English in India. Condition of the peninsula during the Mogul Empire; establishment of British Supremacy; the Presidencies and the Native States; strength and weakness of England's position in the Far East.

5. England during the Nineteenth Century. A more detailed history of the English people from the close of the Napoleonic wars and during the reign of Queen Victoria.

Subjects for individual research and investigation are arranged at the weekly meetings of the seminars of American and English history.

LATIN.

PROFESSOR CARROLL.

The aim of the graduate instruction in Latin is twofold:

(1) The attainment of a wider and more accurate knowledge of the Latin language and literature than can be acquired in the ordinary college course, and (2) special training in the methods of scientific research.

To serve these ends the Latin Seminary has been organized, composed of all the graduate students in the department. Each year some one author or branch of literature is made the center of study. Interpretations of the text under consideration are prepared by the members, and papers are read by them containing the results of special study of philological or literary topics. Furthermore, wide and systematic reading of Latin authors is carried on under personal supervision, and special courses of lectures are given from time to time on themes in Roman life and literature.

The center of study during the present session has been the rhetorical works of Cicero. The following courses are offered:

1. Horace and Roman Satire.
2. The Roman Epic.
3. The Roman Historians, especially Tacitus.

The Librarian of Congress has expressed a willingness to provide such books as are necessary for the effective prosecution of the work.

MATHEMATICS—PURE.

PROFESSOR GORE.

1. Higher Plane Curves. Modern Higher Algebra.
2. Mathematical Reading. Caer's Synopsis of Pure Mathematics; Laska's Mathematische Formeln-Sammlung; Gore's Factors and Formulas.
3. Advanced Integral Calculus; Theory of Equations.
4. Functions. General Theory of Functions, Harkness and Morley; Abelian Functions, Briot, *Théorie des Fonctions Abéliennes*.

PROFESSOR HODGKINS.

5. Differential Equations.

Students in this course meet with the class in Differential Equations in the Scientific School (two hours a week), studying there Johnson's *Differential Equations*. This is supplemented by lectures and by the study of Forsyth's *Differential Equations* (two hours a week).

6. Determinants.

The first part of the year is given to the mastery of some elementary book on Determinants, such as that by Wed. This is followed by a study of Scott's *Theory of Determinants* and of Muir's *Theory of Determinants in the Historical Order of its Development*.

MATHEMATICS—APPLIED.

PROFESSOR HARSHMAN.

1. Geometry of Position, developed by projective methods, based on the works of von Staudt, Möbius, Steiner, Poncelet, etc.

2. Graphic Statics. This science may be studied with either of two objects in view:

a. As a part of Applied Mechanics.

b. As a part of Analytical Mechanics, based on geometry of position.

3. Investigations in analytical and applied mechanics, hydrodynamics, hydraulics, pneumatics, and strength of materials, based on the works of Weisbach, Church, Ritter, Rankine, Bresse, etc.

ASSOCIATE PROFESSOR JAMES.

4. Analytic Mechanics: Minchin, Ponce, Lagrange, Jacobi, Hamilton.

5. Spherical Harmonics and allied functions, with applications to mathematical physics: Todhunter, Ferrers, Thomson and Tait, Maxwell, Rayleigh, Heme.

6. Hydrodynamics and Tides: Lamb, Lagrange, Laplace, Airy, Thomson, Ferrel, Darwin.

METEOROLOGY.

PROFESSOR ABRE.

1. Experimental and Laboratory Work in Meteorology. The lectures will treat of the theories of instruments; the laws of meteorological phenomena, so far as they are susceptible of laboratory experiment; the differences in methods of reduction and publication.

2. Practical Meteorology. The lectures will treat of cartography, daily weather charts, methods of predicting the weather for a few days, long-range predictions for seasons, methods of verification, and the climates of past geological ages.

3. Physical and Theoretical Meteorology. The lectures will sketch the present state of our knowledge of atmospheric phenomena as a problem in thermodynamics and hydrodynamics. An extensive course of reading and private study will be marked out for the pupil, and his thesis for the degree of Ph. D. must be in the field of physical meteorology.

NEUROLOGY.

PROFESSOR SHUTE.

This course includes laboratory work, readings, and recitations. The nervous system is investigated in typical animals of the different classes, especially with the view of gaining some insight into the physiology of the Central Nervous System in Man. The growth of the brain and its physical characters as related to intelligence are investigated. The histology and embryology of the Central Nervous System and the Sense Organs are studied. A history of the prevailing conceptions in Neurology is to be acquired.

The course is designed to transmit a sound knowledge of the architecture and function of the Nervous System of Man for the use of students of Anatomy and those contemplating a course in Medicine and Psychology.

PHILOSOPHY.

PROFESSOR STURGEON.

1. Aristotle's Ethics and Politics.
2. The Ethical Theories of Hobbes, Bentham, Mill, and Spencer.
3. The Ethics of Kant and Hegel's *Rechts-philosophie*.
4. Kant's Critique of Pure Reason.
5. Ethics of Kant's Critique of the Practical Reason, and Green's Prolegomena to Ethics.
6. Kant's Critique of the Practical Reason, and Critique of the Judgment.
7. Hegel's *Logic* and *Philosophy of the Sciences*.
8. The Philosophy of Religion. Hegel and Schleiermacher.
9. Philosophy of History.
10. The History of Philosophy.

Other desired courses in Ethics and Philosophy may be arranged for with the Professor.

PROFESSOR HARRIS.

Dr. Harris will cooperate with Dr. Stoddett in carrying out additional courses in connection with Courses 9 and 10.

POLITICAL SCIENCE.

PROFESSOR CRAVES.

1. A comparative study of the political institutions of the leading nations of the world, ancient and modern; the *theory* of politics.

2. Political Science. An analytical study of the nature of the State and of public administration; the life and conduct of the State; the *art* of politics.

3. Political Philosophy. Speculation as to the origin of government; its ethical bases and the ideal form of the perfect State; the *theory* of politics.

ROMANCE LANGUAGES.

PROFESSOR HENNING.

French.

1. Seventeenth Century Literature, History, and Life.
2. The comedy of Molière and of his contemporaries.
3. Nineteenth Century Lyric Poetry.

Spanish.

1. Literature of the Seventeenth Century, the classic period: Cervantes, Lope de Vega, Calderón.

In all the above courses a large amount of reading is prescribed, and students are encouraged to do original investigation. Books required will, to a large extent, be furnished by the library of the Department.

SOLAR PHYSICS.

PROFESSOR BIGELOW.

Graduate studies in Solar Physics in its relation to Meteorology.

1. Solar Magnetism. The constitution of the sun, the solar corona, the sun-spots and allied problems in solar physics, giving the grounds for the recent development of the theory that the sun is a polarized sphere surrounded by a magnetic field, which is the basis of these phenomena.

2. Cosmical Electricity and Magnetism. The two fields of force emanating from the sun, their mode of propagation through the ether, the theory of magnetic and electro-magnetic fields as applied to the theories of light, heat, and other wave motions. Authors: Maxwell, Poincaré, Fleming, Watson, and Burbury, with references to the recent literature in scientific journals.

3. Terrestrial Magnetism. The distribution of the permanent magnetism of the earth, its disturbance by the solar fields, magnetic instruments, observatories and methods of observation, magnetic storms, the aurora, and atmospheric electricity, with a history of the progress of the science of each portion. Authors: Gauss, Lloyd, Walker, Stewart, and Gee, the reports of observatories and recent scientific papers.

4. Meteorology. The thermodynamic theory of the distribution of the atmosphere, the motions of the same, the periodic variations due to the solar fields, and the long range predictions of the weather. A statement will be made of the latest progress in the development of this branch of physics, together with the allied questions of atmospheric absorption and transmission of energy, including important contributions of physical laboratories bearing on these subjects.

The results of the International Cloud Survey of the upper air; a comparative study of the theories of dynamic meteorology; Bigelow's standard system of equations useful in meteorology; the gradients of pressure, temperature, and vapor tension as determined by cloud computations, balloon and kite ascensions; these and related topics are included in this course.

ZOOLOGY.

PROFESSOR GILL.

A general course of lectures is given on the Principles of Zoology, including a consideration of the philosophy, the methods of investigation, and the systems of zoology as determined by comparative anatomy.

The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection.

PROCEDURE FOR ADMISSION.

Candidates for admission to this School must present the diplomas they hold, or certificates that they have received such diplomas, to the Dean of this School, and obtain from the Dean application blanks. When properly filled and signed these applications are to be returned to the Dean of this School, together with a catalogue of the institution from which the candidate received his diploma, to be submitted to the Board of Directors of University Studies for investigation; the applicant will thereupon be informed in writing of the action of the Board. When the applicant is informed that the Board of Directors of University Studies has approved his proposed course of study and has admitted him to candidature for a degree he should present himself at once to the Registrar and matriculate. He should then present his receipt card and matriculation paper to the Dean for his signature, and also obtain the signatures upon his matriculation paper of each of the professors with whom he is to study during the year. When this paper has been thus executed the student must sign it and return it to the Registrar.

REQUIREMENTS FOR DEGREES.

The Masters' Degrees.

Persons holding the degree of Bachelor of Arts from institutions of repute are qualified to enter as candidates for the degree of Master of Arts, and those holding the degree of Bachelor of Science for the degree of Master of Science.

Candidates for a Master's degree to be eligible shall pass one year at this University in the advanced study of at least one subject, and shall sustain a satisfactory examination and present an acceptable thesis, accompanied with a bibliography.

Engineering Degrees.

Persons holding the degree of Bachelor of Science in Engineering courses, or its equivalent, from institutions of repute are qualified to enter as candidates for the degrees of Civil Engineer, Mechanical Engineer, or Electrical Engineer.

Candidates to be eligible shall pass one year at this University in the advanced study of Engineering subjects, shall sustain a satisfactory examination in these subjects, and shall present a satisfactory thesis, accompanied with a bibliography.

Doctoral Degrees.

Persons holding the degree of Master of Science, Master of Arts, or their equivalent, from institutions of repute are qualified to offer themselves as candidates for the degree of Doctor of Philosophy.

Candidates for the degree of Doctor of Philosophy shall offer themselves in three topics for advanced study—one major and two collateral minor subjects. Before being admitted as candidates, they shall pass satisfactory examinations in French and German, and shall pay an examination fee of five dollars for the examination in each of those languages.

To be eligible for the degree, candidates who hold Masters' degrees shall pass two years at this University in the study of their major topic and one year in the study of each minor topic; they shall sustain satisfactory examinations upon the three subjects which they may have elected, and they shall present theses, accompanied with an exhaustive bibliography, embodying the results of original research in their minor subject, which theses they shall be prepared to defend before a board of experts.

THESES.

All theses must be presented on the official thesis paper of the University, and they must be typewritten when possible. Official thesis paper can be purchased from the Registrar of the University.

All theses must be presented to the Dean not later than May 11.

No theses for the degree of Doctor of Philosophy shall be submitted to the Faculty until a thesis have been approved by the professor having supervisory charge of the *major topic*; and also by a committee, to be appointed from among the Faculty by the Dean.

All theses, with their accompanying drawings, are the property of the University, and must be deposited in the University archives; but authors are permitted to make copies by applying to the Dean.

Candidates who receive the degree of Doctor of Philosophy are expected to have their theses printed as early as practicable after graduation, and to present fifty copies of the printed theses to the University, through the Dean, to be distributed among institutions of learning.

FINAL EXAMINATIONS.

Examinations are conducted under the following rules of the Board of Trustees:

"Examinations for degrees shall close at least three weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported, by the Faculty of each, to the President of the Faculties at least two weeks before the date of the commencement."

"No student shall be admitted to an examination for promotion from a lower to a higher class or to a final examination who is ineligible for tuition and whose name has not been certified to the Dean of the School proposing to hold an examination by the Treasurer."

Professors and instructors will require students entering examinations to present their cards of admission from the Treasurer before permitting them to be examined.

COMMENCEMENT

Candidates for degrees are expected to appear at the Commencement Exercises in academic caps and gowns.

DOCTORATE DISPUTATION.

A Doctorate Disputation was held publicly in University Hall May 20, 1901. The theses that were successfully defended, the candidates, and the boards of examiners were as follows:

THESIS: The expansion of Russia to the eastward.

CANDIDATE: William Hamilton, B. A. 1891, Moravian College, Pennsylvania; M. A. 1894, Columbian University.

BOARD: Hon. John B. Henderson, LL. D.; Hon. John A. Kasson, LL. D.; Charles Moore, Ph. D.; Professor C. C. Swisher, Ph. D., presiding.

THESIS: The development of commerce in Japan and its effect on civilization.

CANDIDATE: Chohoi Shirasu, Graduate 1893, Doshisha University; A. M. 1899, Yale University.

BOARD: His Excellency Wu Tung Fang, LL. D., Envoy Extraordinary and Minister Plenipotentiary of the Chinese Empire; S. N. D. North, A. M., Chief Statistician of the Division of Manufactures, Twelfth U. S. Census; Colyer Meriwether, Ph. D.; Professor Andrew F. Craven, Ph. D., presiding.

EXPENSES.

Matriculation fee of candidates for any degree conferred	\$10 00
Annual fee for instruction and direction of candidates	
for Master's degrees	30 00
Annual fee for instruction and direction of candidates	
for an Engineering or Doctor's degree	90 00
Diploma fee.	10 00

Where laboratory courses are taken, an additional fee is required.

Regular students in the School of Graduate Studies or in the School of Comparative Jurisprudence and Diplomacy who are candidates for degrees in courses that require an elementary knowledge of languages will be admitted to courses in languages in the Corcoran Scientific School at a special annual fee of twenty dollars for each department of languages taken.

Students proposing to withdraw from the School of Graduate Studies will inform the Registrar to that effect. In the absence of such notification, no claims for exemption from fees will be allowed.

For further information concerning the School of Graduate Studies, application may be made to

CHARLES E. MUNROE, *Dean*.

STUDENTS IN THE SCHOOL OF GRADUATE STUDIES.

In Attendance.

<i>Name.</i>	<i>State.</i>	<i>Address.</i>
Martha Maria Brewer B. S., 1896, M. S., 1901, <i>Columbia University</i> <i>Topic, Chemistry.</i>	Mass.	198 Mass. Ave. N. E.
Edwin Henry Fleuck <i>Topic, Geometrical Interpretation.</i>	Wis.	424 E. Capitol Street.
William Dean Goddard A. B., 1894, <i>Colgate University</i> M. A., 1901, <i>Columbia University</i> <i>Topic, Bibliography.</i>	Mass.	100 1st Street, N. E.
Ralph Brewster Marcan B. S., 1890, M. E., 1899, <i>Columbia University</i> <i>Topic, Mechanical Engineering.</i>	N. Y.	3000 9th Street, N. E.
Helma Charlotte Hill Weed A. B., 1896, <i>Vassar College</i> <i>Topic, Chemistry.</i>	D. C.	1730 Columbia Road

For the Degree of Civil Engineer.

<i>Name.</i>	<i>State.</i>	<i>Address.</i>
Arthur Waters Calver B. S., 1901, <i>Columbia University</i>	D. C.	1721 P Street
Lester Morton Holt B. S., 1900, <i>Columbia University</i>	D. C.	Care Auditor P. O. D.
Charles Reel Olberg B. S., 1900, <i>Columbia University</i>	Minn.	1939 13th Street.

The Degree of Master of Science

Name	State	Address
John Henry Beallford M. S., 1898, Columbia University Teacher	Md.	College Park, Md.
Jesse Edgar Hanger B. S., 1896, Columbia University Teacher	Ind.	1808 H Street
Gay Bennett Marston B. S., 1897, Columbia University Teacher	D. C.	1604 29th Street
Edward Adams Murr B. S., 1897, Columbia University Teacher	Pa.	Off. Office, Navy Yd.
Edward Cyrus Poomson B. S., 1897, Columbia University Teacher	Iowa	1641 13th Street

The Degree of Master of Science

Name	State	Address
Harry Wallace Bowen B. S., 1898, Washington University Teacher	Mass.	Rm. 31, U. S. Pat. Off.
Armedand Webster Brown B. S., 1898, Columbia University Teacher, Washington	Md.	7718 9th Street
Calvin Grant Cramm B. S., 1898, Columbia University Teacher	Md.	College Park, Md.
Frank Carlton Danvers B. S., 1898, Columbia University Teacher	D. C.	40 R Street, N. E.
George Anton Daldon B. S., 1898, Columbia University Teacher	D. C.	1418 Binney Street
Burt Carlbert Gotsinger B. S., 1898, Columbia University Teacher	S. C.	927 N. Y. Avenue
Caroline Irene Grossermer U. S. Acad. S. C. Museum, Washington Teacher	Ohio	118 R Street, N. E.

SCHOOL OF GRADUATE STUDIES

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Name	State	Address
Elmer William Hays	Va.	Med. Dept., Pol. Coll.
B. S. 1881 University of Virginia		
Topic: Entomology		
Anna Sarah Haddock	D. C.	1213 9th Street
B. S. 1881 University of California		
Topic: Entomology		
Henry Ware Newman	Texas	Bureau of Forestry
A. B. 1881 Mc-Murree University		
Topic: Entomology		
John Bernard Robb	Va.	College Park, Md.
B. S. 1881 University of Virginia		
Topic: Agriculture, Entomology		
Adelson Hogan Saylor	Ohio	29 1/2 Street, N. E.
B. S. 1881 Ohio State University		
Topic: Biology		
Frank Owen Stetson	Mass.	1802 R Street
B. S. 1881 Massachusetts Institute of Technology		
Topic: Entomology		
Martin Norris Straight	Md.	College Park, Md.
B. S. 1881 University of Maryland		
Topic: Agriculture, Entomology		
John Edw'rs Woodbridge Emery	Md.	Dep't of Agriculture
B. S. 1881 University of Maryland		
Topic: Entomology		
John Cleveland Welsh	Tenn.	134 A Street, N. E.
B. S. 1881 University of Tennessee		
Topic: Entomology		
Charles Marion Yeates	N. C.	925 P Street
A. B. 1881 University of North Carolina		
Topic: Entomology		
E. B. 1881 University of North Carolina		
Topic: Entomology		

For the Degree of Master of Arts

Name	State	Address
John Henry Alseton	D. C.	1414 G Street
B. A. 1881 University of California		
Topic: Agriculture, Entomology		

Name	State	Address
Dwight Wood Baker	R. I.	729 18th Street.
A. B., 1886, Brown University.		
Topic, American History.		
Harry Frye Best	Ky.	Gallaudet College.
A. B., 1901, Centre College.		
Topic, Languages.		
Lucy Webster Cummings	D. C.	Howard University.
B. A., 1897, Wesleyan College.		
Topic, Geography.		
Franklin Davis	Va.	Seminary, Va.
A. B., 1900, Randolph Seminary College.		
Topic, Botanical Entomology.		
Rev. John Dysart	Ky.	Mt. St. Albans, D. C.
B. S., 1881, Miami College.		
Topic, American and English History.		
Donald Everfield	Md.	College Park, Md.
B. A., 1896, Maryland Agricultural College.		
U. S. B., 1898, Georgetown University.		
Topic, Entomology.		
Carl Hau	Germany.	1405 Columbia St.
1896, University of Freiburg.		
Topic, German and History.		
James Edgar Hiatt	Md.	813 3d Street.
B. S., 1899, Columbia University.		
Topic, Statistics.		
Ilda Hunnan	Iowa.	1448 R. I. Avenue.
B. S., 1896, Iowa Wesleyan University.		
Topic, English.		
Frank H. Hitchcock	Mass.	Dep't of Agriculture.
A. B., 1893, Harvard University.		
U. S. B., 1894, U. S. M., 1896, Columbia University.		
Topic, Patent Law.		
Torstein Jahr	Iowa.	219 3d Street, S. E.
A. B., 1896, Luther College.		
B. L. S., 1900, Iowa State University.		
Topic, English.		
James David Jaquette	Del.	Rockville, Md.
B. S., 1889, Pennsylvania College.		
Topic, German and History.		

Name	State	Address
Motshi Kato.....	Japan..	617 H Street.
B. A., 1891, Tokyo College, 1891.		
Topic, Literature.		
John Royce Laughlin.....	Md.....	922 N Street.
B. S., 1890, Maryland Agricultural College.		
Topic, Economics.		
Rev. Robert Kinlock Massie.....	Va.....	Seminary, Va.
Topic, English History.		
Rev. David Wallace Montgomery.....	Va.....	Herndon, Va.
A. B., 1889, Hastings College.		
Topic, English Literature.		
Rev. Ernest Moorehead Paddock.....	Pa.....	1723 H Street.
A. B., 1891, University of Pennsylvania.		
Topic, English Literature.		
1891, University of Pennsylvania.		
Topic, Philosophy.		
Rose Amelia Palmer.....	D. C.....	1408 31st Street.
B. A., 1894, Vassar College.		
Topic, Christianity.		
Rev. George Freeland Peter.....	D. C.....	207 A Street, S. E.
Topic, Philosophy.		
Will Allen Reed.....	Ind.....	1119 K Street.
A. B., 1888, Indiana University.		
Topic, English.		
Luther Adolph Richards.....	Va.....	807 12th Street.
Topic, Pure Mathematics.		
Rev. Benjamin Perry Robertson.....	Md.....	1706 N. Fulton Ave., Baltimore, Md.
M. A., 1889, Jackson College.		
Th. M., 1890, Southern Baptist Theological Seminary.		
Topic, Religious Literature.		
Nathaniel Emmons Robinson, Jr. D. C.....	Brightwood, D. C.	
B. A., 1891, Columbian University.		
Topic, English.		
Georgia Sanderlin.....	N. C.....	1008 N Street.
B. A., 1898, Columbia University.		
Topic, English.		
Dorothy Holland Sipes.....	D. C.....	600 Mass. Ave.
A. B., 1891, Lyell Moore College.		
Topic, Latin.		

Name	State	Address
August Wesley Stultman	Wash.	601 9th Street
A. B., 1881		
A. M., 1887, <i>University of Washington</i>		
<i>Teacher, American Bible School</i>		
Granville Richard Swift	Va.	1628 9th Street
A. B., 1880, <i>University of Virginia</i>		
<i>Teacher, American Bible School</i>		
Giles Russell Taggart	N. Y.	Garrett Park, Md.
B. S., 1880, <i>University of Virginia</i>		
<i>Teacher, American Bible School</i>		
Helen Mary Thorburn	Florida	1504 13th Street
A. B., 1880, <i>University of Virginia</i>		
<i>Teacher, American Bible School</i>		
Martha Florence Torgerson	Wis.	Pop. Div., Cens. Off.
B. A., 1880, <i>University of Wisconsin</i>		
<i>Teacher, American Bible School</i>		
Gideon Baxter Travis	Mich.	746 R. L. Avenue
B. S., 1880, <i>University of Michigan</i>		
B. S., 1880, <i>University of Chicago</i>		
<i>Teacher, American Bible School</i>		

For the Degree of Doctor of Philosophy.

Name	State	Address
Prof. Gustav Ayres	D. C.	2917 Kalorama Ave.
M. F., 1880, <i>University of Virginia</i>		
<i>Teacher, American Bible School</i>		
A. M., 1880, <i>University of Virginia</i>		
<i>Teacher, American Bible School</i>		
Victor King Chesant	Cal.	Dep't of Agriculture
B. S., 1880, <i>University of California</i>		
<i>Teacher, American Bible School</i>		
<i>Teacher, American Bible School</i>		
Franklin Davis	Va.	Seminary, Va.
B. A., 1880, <i>University of Virginia</i>		
<i>Teacher, American Bible School</i>		
<i>Teacher, American Bible School</i>		
Rev. Frank Leighton Day	Va.	1302 39th Street
B. A., 1880, M. A., 1886, <i>University of Virginia</i>		
B. D., 1880, <i>University of Virginia</i>		
<i>Teacher, American Bible School</i>		
<i>Teacher, American Bible School</i>		

Name	State	Address
Herbert Ernest Day	Conn.	Kendall Green.
B. S., 1880, Cornell University.		
M. A., 1882, Cornell University.		
M. A., 1885, Cornell University.		
<i>Topics</i> : Marine, Entomology, Mammals.		
<i>Research</i> : Biology, Entomology.		
Morton Dorset	Tenn.	1, 20 N. Y. Avenue.
B. S., 1880, University of Tennessee.		
M. B., 1882, University of Tennessee.		
<i>Topics</i> : Marine, Botany, Microbiology.		
<i>Research</i> : Pathology, Immunology.		
Aida Mary Doyle	Pa.	1902 3rd Street.
B. S., 1888, M. S., 1890, Georgetown University.		
<i>Topics</i> : Marine, Chemistry, Mammals.		
<i>Research</i> : Chemical Chemistry, Zoology.		
William Thomas Fankner	Miss.	Auditor P. O. Dep't.
B. S., 1888, M. A., 1891, University of Mississippi.		
<i>Topics</i> : Marine, Statistics, Mammals.		
<i>Research</i> : Zoology.		
Alan Bradshaw Fay	D. C.	Kendall Green.
A. B., 1881, A. M., 1883, Harvard University.		
<i>Topics</i> : Marine, Microbiology, Botany.		
<i>Research</i> : Zoology, Comparative Entomology, Entomology, Literature.		
Perivall Hall	D. C.	Kendall Green.
A. B., 1881, Harvard University.		
M. A., 1883, Georgetown College.		
M. A., 1885, Georgetown University.		
<i>Topics</i> : Marine, Zoology, Microbiology.		
<i>Research</i> : Applied Mathematics, Astronomy.		
Professor William Perry Hay	D. C.	Howard University.
B. S., 1891, M. S., 1892, Boston University.		
<i>Topics</i> : Marine, Zoology, Mammals.		
<i>Research</i> : Zoology.		
Edwin Aliston Hill	Conn.	Classification Div., U. S. Patent Office.
A. B., 1881, Yale University.		
M. S., 1883, Georgetown University.		
<i>Topics</i> : Marine, Chemistry, Mammals.		
<i>Research</i> : Physics, Chemistry.		

- | Name | State | Address |
|--|-------|-----------------------|
| Nevil Monroe Hopkins | D. C. | Metropolitan Club |
| B. S., 1866; M. S., 1890, <i>Columbia University</i> . | | |
| <i>Topics</i> — <i>Mineral Chemistry</i> ; <i>Metals</i> . | | |
| <i>Subjects</i> — <i>Organic Chemistry</i> . | | |
| William Mather Lamson | D. C. | 1623 N Street. |
| B. S., 1857; A. B., 1860, <i>Columbia University</i> . | | |
| <i>Topics</i> — <i>Mineral</i> ; <i>Agriculture</i> ; <i>Metallurgy</i> . | | |
| <i>Subjects</i> — <i>Mineralogy</i> ; <i>Mathematics</i> ; <i>Physics</i> ; <i>Mathematics</i> . | | |
| Edwin Rufus Lewis | D. C. | 1623 N Street. |
| A. B., 1861; A. M., 1861, <i>Amherst College</i> . | | |
| M. D., 1861, <i>Harvard College</i> . | | |
| 1871, <i>Columbia University</i> ; <i>St. Johns</i> . | | |
| <i>Topics</i> — <i>Mineral</i> ; <i>Geological</i> ; <i>Metallurgy</i> . | | |
| <i>Subjects</i> — <i>Philosophy</i> ; <i>Astronomy</i> ; <i>Geology</i> ; <i>History</i> . | | |
| Rev. Donald Campbell MacLeod | D. C. | 316 Indiana Avenue. |
| B. A., 1861; M. A., 1868, <i>Princeton College</i> . | | |
| 1868, <i>Western Theological Seminary</i> , Ky. | | |
| <i>Topics</i> — <i>Mineral</i> ; <i>Physics</i> ; <i>Metals</i> . | | |
| <i>Subjects</i> — <i>Geology</i> ; <i>Botany</i> ; <i>Mathematics</i> . | | |
| Caleb Clark Magruder | Md. | Treas. Department. |
| A. B., 1880; A. M., 1888, <i>Yale College</i> . | | |
| U. S. B., 1897, <i>Georgetown University</i> . | | |
| M. A., 1890, <i>Columbia University</i> . | | |
| <i>Topics</i> — <i>Mineral</i> ; <i>Geology</i> ; <i>Metals</i> . | | |
| <i>Subjects</i> — <i>History</i> ; <i>Philosophy</i> . | | |
| Thomas Herbert Means | D. C. | Dep't of Agriculture. |
| B. S., 1868; M. S., 1901, <i>Columbia University</i> . | | |
| <i>Topics</i> — <i>Mineral</i> ; <i>Geology</i> ; <i>Metals</i> . | | |
| <i>Subjects</i> — <i>Physics</i> ; <i>Chemistry</i> ; <i>Physics</i> . | | |
| Stephen Cookman Miller | Minn. | 1235 N. Y. Avenue. |
| M. D., 1881; M. S., 1888, <i>Georgetown University</i> . | | |
| 1890, <i>Id.</i> 1888, <i>Howard University</i> . | | |
| <i>Topics</i> — <i>Mineral</i> ; <i>Mineral Chemistry</i> . | | |
| <i>Subjects</i> — <i>Organic Chemistry</i> ; <i>Physics</i> . | | |
| Joseph Strayer Mills | Md. | Central High School. |
| B. A., 1861; M. A., 1861, <i>Western Maryland College</i> . | | |
| <i>Topics</i> — <i>Mineral</i> ; <i>Chemistry</i> ; <i>Metals</i> . | | |
| <i>Subjects</i> — <i>Mineralogy</i> ; <i>Physics</i> . | | |

- | Name | State | Address |
|---|-------|--|
| Dr Robert Elward Lee Newbome | Texas | 914 N. Y. Avenue. |
| M. D., 1889, Georgetown University. | | |
| D. D. S., 1888, University of Chicago of Dental Surgery. | | |
| B. S., 1890, M. S., 1891, Connecticut University. | | |
| Topics: Micro, Neurology, Metabolism, Zoology, Anatomy. | | |
| Charles Mathias Nissen | Ohio | U. S. Patent Office. |
| B. S., 1899, Case School of Applied Science. | | |
| B. S., 1901, Columbia University. | | |
| Topics: Micro, Pharmacy, Metabolism, Pure Mathematics, Applied Mathematics. | | |
| Henry Orth, Jr. | D. C. | 1071 I. Street. |
| M. B., 1890, Johns University. | | |
| M. S., 1890, Columbia University. | | |
| Topics: Micro, Physical Chemistry, Mineralogy, Organic Chemistry, Toxicology, Chemistry. | | |
| George Edward Patrick | Iowa | Division of Chemistry, Dept. of Agriculture. |
| B. S., 1881, M. S., 1884, Cornell University. | | |
| Topics: Micro, Agriculture, Chemistry, Metabolism, Biochemistry, Toxicology. | | |
| Warren Waverley Phelan | N. Y. | 822 Connecticut Ave. |
| B. A., 1890, M. A., 1891, Cornell University. | | |
| Topics: Micro, Comparative Anatomy, Physiology, Metabolism, Genetics, and Comparative History, Paleontology, Zoology. | | |
| Sarah Harvey Porter | D. C. | Kendall Green, D. C. |
| M. A., 1901, Connecticut University. | | |
| Topics: Micro, English, Metabolism, German, French. | | |
| Edward George Portner | D. C. | 1104 Vermont Ave. |
| B. S., 1897, M. S., 1898, Connecticut University. | | |
| Topics: Micro, Organic Chemistry, Metabolism, Microscopic Chemistry, Toxicology, Chemistry. | | |

Name	State	Address
Thomas Malcolm Price	Md.	1607 12th Street.
B. S., 1880, Maryland Agricultural College.		
M. S., 1886, Connecticut University.		
Topics: Marine, Botany, Zoology, Microbiology, Physiology, Entomology.		
Fred Ferguson Reisner	Mo.	323 T Street
B. S., 1880, F. B., 1888, Connecticut University.		
Topics: Marine, Physics, Metals, Microbiology, Physiology, Chemistry.		
Harriet Richardson	D. C.	1848 Wyoming Place.
A. B., 1880, A. M., 1901, Virginia College.		
Topics: Marine, Zoology, Metals, Chemistry, Geography.		
Christian George Storm	Wis.	316 Del. Ave., N. E.
B. S., 1888, M. S., 1890, Connecticut University.		
Topics: Marine, Chemistry, Metals, Physiology, Chemistry, Microbiology.		
Ernest Lawton Thurston	D. C.	1503 R Street.
C. E., 1880, Connecticut University.		
Topics: Marine, Geography, Statistics, Marine, Higher Chemistry, Botany, Entomology.		
Rev. Albert Norman Ward	Md.	124 7th Street, S. E.
A. B., 1880, Western Maryland College.		
M. A., 1880, Connecticut University.		
Topics: Marine, Zoology, Metals, Geography, Literature, History.		
Thomas Alfred Witherspoon	Tenn.	U. S. Patent Office
1880, F. S., New Amsterdam.		
L. B., 1880, M. S., 1887, Columbia University.		
Topics: Marine, Physiology, Chemistry, Metals, Chemistry, Entomology.		

Total..... 96

LAW SCHOOL.

THE FACULTY.

REV. SAMUEL H. GREENE, D. D., LL. D.,

President pro tempore.

HON. WALTER S. COX, LL. D.,

Dean Emeritus.

CHARLES W. NEEDHAM, LL. D.,

Dean.

Professor of the History and Classification of Law, Equity
Jurisprudence, and Trusts and Trades Unions.

HON. JOHN M. HARLAN, LL. D.,

(Associate Justice of the Supreme Court of the United States),
Professor of Constitutional Law, Domestic Relations,
Torts, and Personal Property.

HON. DAVID J. BREWER, LL. D.,

(Associate Justice of the Supreme Court of the United States),
Professor of the Law of Corporations.

HON. WILLIAM A. MAURY, LL. D.,

(Member of the Spanish Treaty Claims Commission, sometime
Assistant Attorney General of the United States),
Professor of Common Law Pleading, Evidence,
Federal Procedure, and Insurance.

HON. ANDREW C. BRADLEY, LL. B.,

(Associate Justice of the Supreme Court of the District of
Columbia),
Professor of Commercial Paper, Criminal Law, and
Criminal Procedure.

THE COLUMBIAN UNIVERSITY.

WILLIAM G. JOHNSON, LL. M.,
of the Washington Bar,
Professor of Common Law Practice.

HON. WILLIS VAN DEVANTER,
Assistant Attorney General of the United States,
Professor of Equity Pleading and Practice.

MELVILLE CHURCH, LL. M.,
Professor of the Law of Patents.

WILLIAM F. MATTINGLY, LL. D.,
of the Washington Bar,
Professor of Practical Commercial Law.

HON. STANTON J. PEELE, LL. D.,
Judge of the United States Court of Claims,
Professor of the Law of Partnership, Agency, and Bailments.

WALTER C. CLEPHANE, LL. M.,
of the Washington Bar,
Professor of the Law of Contracts and Instructor in Moot-Court
Work.

ARTHUR PETER, LL. M.,
of the Washington Bar,
Professor of the Law of Real Property and Instructor in Moot-
Court Work.

EDWIN C. BRANDENBURG, LL. M.,
Professor of Bankruptcy and Insolvency.

CHANNING RUDD, LL. M.,
of the Washington Bar,
Professor of Oratory and Assistant Professor of the Origin,
Classification, and Elements of Law.

HENRY P. BLAIR, LL. M.,
of the Washington Bar,
Assistant Professor of the Law of Torts, Personal Property, and
Domestic Relations.

COURT OF APPEALS.

WILLIAM E. MATTINGLY, LL. D.,

Chief Justice.

ANDREW B. DUVALL, LL. B.,

JOHN B. LARNER, LL. B.,

Associate Justices.

CHANNING RUDD, LL. M.,

Librarian.

J. HENRY ALTSCHU, A. B.,

Assistant Librarian.

PERRY S. PEARSON, M. A.,

Assistant Librarian and Assistant to the Secretary.

SAMUEL HERRICK, LL. B.,

of the Washington Bar.

Clerk of the Moot Court.

CHANNING RUDD, LL. M.,

Secretary of the Schools of Law.

This school was established in 1866, and it is the oldest law school in Washington. Men occupying the highest positions in the profession are in its faculty, personal contact with whom is a source of inspiration to every student.

LAW LECTURE HALL.

The University has recently completed and now occupies a new building, known as Law Lecture Hall, devoted exclusively to its "Schools of Law and Diplomacy." It adjoins University Hall, corner Fifteenth and H Streets, and is only two blocks

from the White House. This new building contains three commodious lecture halls, two moot court rooms, a large and well lighted library room, and administrative offices. The building is lighted by electricity, handsomely furnished, and well equipped and adapted to the work for which it is designed.

ADMISSION.

Applicants for admission to the First year class as candidates for a degree must be at least eighteen years of age, and must have had an education equivalent to a high school course.

The educational requirement may be satisfied by a presentation of certificates or by an examination before the Dean. Application blanks will be furnished by the Secretary.

The regular course of study embraces three years. There is also a special course of one year in Patent Law.

A student may be admitted to advanced standing upon furnishing evidence satisfactory to the Dean that he has spent time, not less than three months, and regularly pursued courses of study in a recognized law school or in a law office under the direction of a practicing attorney in good standing, and in all such cases he shall file a certificate of the facts, and if such certificate be from a law school he may receive credit for the time he has attended such school and for the studies in which he has passed successful examinations. If the certificate be from a practicing attorney, the student may receive a reasonable credit for time, but shall take examinations in all the studies pursued and for which he asks credit.

The annual session begins on the first Monday in October, and continues until the Wednesday nearest the first day of June following.

The lectures will be delivered between the hours of 4.30 and 6.30 in the afternoon.

The register will be opened for the enrollment of students on the first day of September.

The University, in October, 1898, increased the regular course of study for candidates for the degree of Bachelor of Laws to three years. The work has been largely increased with a view of giving students that thorough knowledge of the general rules of law and practice which will fit them for the Bar of any State. Professors will conduct the study of each subject by

lectures, required courses of reading, the study of cases, and class conferences. The study of special cases upon the various subjects treated and the Moot Court work have been largely increased, thus bringing before the student the modern applications of law by the courts of the country.

Special instruction and practical work are given the students in the preparation of Contracts and Wills, and in the organization of Corporations. This work is carefully examined and returned to the student, with suggestions by the instructors in charge of the work.

There will be ten hours per week of class room work in each year of the course.

COURSES OF INSTRUCTION.

First Year.

After preliminary lectures on the study of law, the courses are as follows:

HISTORY OF AMERICAN AND ENGLISH LAW.—Professor Needham. One hour, one-half year.

ORIGIN, CLASSIFICATION, AND ELEMENTS OF LAW.—Professor Needham. *One hour.

CONSTITUTIONAL LAW.—Professor Hartshorn. One hour.

TORTS.—Professor Hartshorn. One hour, one-half year. * *Pollock on Torts* and special cases.

CONTRACTS.—Professor Clephane. Lectures and Conferences. Two hours. * *Laton on Contracts*.

CRIMINAL LAW.—Professor Bradley. Lectures and Conferences. One hour, one-half year. * *Mey's Criminal Law*.

PARTNERSHIP, AGENCY, AND BAILMENTS.—Professor Poelle. Lectures and Conferences. One hour. * *Bonded on Partnership* and * *Hoggett on Agency*.

DOMESTIC RELATIONS.—Professor Hartshorn. One hour, one-half year. * *Bruton on Domestic Relations* and special cases.

* Unless otherwise stated, courses are given throughout the year.

COMMERCIAL PAPER.—Professor Bradley. Lectures and Conferences. One hour, one half year. *Special cases.*

PERSONAL PROPERTY.—Professor HARRIS. One hour, one half year. "*Smith on Personal Property*" and *special cases.*

CLASS CONFERENCE.—TORTS, DOMESTIC RELATIONS, AND PERSONAL PROPERTY.—MR. BRIT. One hour.

CLASS CONFERENCE.—ORIGIN, CLASSIFICATION, AND ELEMENTS OF LAW.—MR. RUDOLPH. One hour.

First year examinations will be held at the conclusion of each course in the following subjects: Origin, Classification, and Elements of Law; Torts; Contracts; Criminal Law; Partnership, Agency, and Bailments; Domestic Relations; Commercial Paper; and Personal Property.

First year instruction will be carried on by topical lectures, supplemented by carefully arranged courses of reading and the study of selected cases which state and illustrate the law. There will be class conferences upon the lectures, and free questioning by students is encouraged. Quiz classes may be formed, and every facility will be afforded the student to aid him in a thorough understanding of the subjects studied.

Second Year.

COMMON LAW PLEADING.—Professor MAURY. Lectures and Conferences. One hour. "*Stephen on Pleading*" Tyler.

EVIDENCE.—Professor MAURY. Lectures and Conferences. One hour. "*Thayer's Cases on Evidence.*"

EQUITY JURISPRUDENCE.—Professor NEEDHAM. Lectures and Conferences. One hour. *Pomeroy, Story, or Eaton.*

CORPORATIONS.—Professor BEWEE. Lectures and Conferences. One hour. *Messinger, Duncan, or Cook.*

CONSTITUTIONAL LAW.—Professor HARLAN. One hour. "*Storck's Commentaries on the Constitution.*"

REAL PROPERTY.—THINGS REAL, OWNERSHIP, AND ESTATES.—Professor PETER. Lectures and Conferences. Two hours. "*Tiedeman on Real Property,*" Book II of *Blackstone* and *special cases.*

CONTRACTS (concluded) AND CONTRACT DRAFTING.—Professor Clephane. Lectures and Conferences. Two hours. *Special cases.*

INSURANCE (FIRE, LIFE, AND MARINE).—Professor Marry. Lectures and Conferences. One hour. "*Wentworth's Cases on Insurance.*"

Second year examinations will be held at the conclusion of each course in the following subjects: Common Law Pleading; Evidence; Equity Jurisprudence; Corporations; Constitutional Law; Real Property; Contracts; and Insurance.

Special courses of reading in text books and selected cases will be assigned by the professors, and cases will be used in the lectures to illustrate the subject under consideration. Practical work in the preparation of contracts and written obligations of various kinds will be given to students by the professors, and this work carefully examined. The second year students will be divided into sections, and there will be discussions and papers upon the subjects gone over in the first and second years' study.

Third Year.

COMMON LAW PRACTICE.—Professor Johnson. Lectures and Conferences. One hour. "*Cut's Common Law Practice*" and *selected cases.*

EQUITY PLEADING AND PRACTICE.—Professor Van Devanter. Lectures and Conferences. One hour. "*Stipante on Equity Pleading*" and *special cases.*

FEDERAL PROCEDURE.—Professor Marry. Lectures and Conferences. One hour, one-half year. "*Cut's Jurisdiction of United States Courts*" and "*Marry's Federal Jurisdiction and Procedure.*"

CRIMINAL PROCEDURE.—Professor Bradley. Lectures and Conferences. One hour, one-half year. "*Boat's Criminal Procedure.*"

EQUITY JURISPRUDENCE.—Professor Needham. Lectures and Conferences. One hour, one-half year. *Pennell, Story, or Eaton.*

PRACTICAL COMMERCIAL LAW.—Professor Mudge. Lectures and Conferences. One hour, one half year. *Special cases.*

BANKRUPTCY AND INSOLVENCY.—Professor Blandenburg. Lectures and Conferences. One hour. "*Essentials on Bankruptcy.*"

REAL PROPERTY, TITLES, AND EQUITABLE ESTATES; AND TESTAMENTARY LAW.—Professor Peck. Lectures and Conferences. Two hours. "*Treatise on Real Property,*" Book II of *Blackstone and special cases.*

ORGANIZATION OF TRUSTS AND TRADES UNIONS.—Professor Needham. Lectures and Conferences. One hour, one half year.

REAL ESTATE REMEDIES.—One hour, one half year.

LEGAL ETHICS AND THE PREPARATION, TRIAL, AND ARGUMENT OF CASES.—One hour, one half year.

MOOT COURTS.—Professors Clephane and Peter. Six hours.

Third year examinations will be held at the conclusion of each course in the following subjects: Common Law Practice; Equity Pleading and Practice; Federal Procedure; Criminal Procedure; Equity Jurisprudence; Practical Commercial Law; Bankruptcy and Insolvency; and Real Property. The grades received in Moot Court work are counted in determining the student's final standing.

The third-year course will also be carried on by special lectures and the study of selected cases; special courses of reading will be assigned, and each student in the third year will take part in the preparation of cases in the Moot Courts, law and equity, upon such a statement of facts as a client would give to a lawyer in active practice, the cases to be carried through from the commencement of the action to a final hearing, according to rules of procedure prepared by the professors in charge of the Moot Courts, cases may be taken by appeal to the Appellate Moot Court. This gives the student practice and drill in determining what actions will lie upon a given state of facts, what defenses may be interposed, and the various steps in the conduct of cases in court. These courts will be presided over by professors and lawyers from the Washington Bar.

PATENT LAW COURSE.

A special course in Patent Law and Patent Law Practice will be conducted by Professor Church, giving thorough preparation to those who contemplate entering that department of jurisprudence. This course covers a period of eight months, with two lectures or sessions of the Moot Court each week. The degree of Master of Patent Laws will be conferred upon those who pass satisfactory examinations at the close of the term. Only graduates in law or members of the bar are eligible to the degree, but any person qualified to profit by the instruction offered will be admitted to the course.

ORATORY.

The purpose of this course is to qualify the student to express his knowledge and communicate his ideas in a convincing, persuasive, and effective manner. Oratory is the ability to arouse the will of the hearer to act in a given direction. By culture the voice is made rich, powerful, and flexible, the body trained to aid in the expression of thought and emotion, and the mind trained to quick, clear, and logical thinking. This course includes voice culture, chest cultivation, deep breathing, gesticulation, self control, extemporaneous speaking, argumentation, debating, and brief drawing.

EXAMINATIONS.

Written examinations will be required upon each subject specified in the courses and will be conducted at the conclusion of each subject. At the close of the third year a general review and examination may be had. The standing of the student upon the several examinations and in the class conferences, the regularity of his attendance, and his character and legal attainments will determine his right to the degree.

DEGREE OF BACHELOR OF LAWS.

The degree of Bachelor of Laws will be conferred upon students who shall have passed satisfactory examinations upon the subjects required in the entire course of three years and whose attendance and conduct have been satisfactory to the Faculty.

FEES AND EXPENSES.

The tuition fee for the regular course is one hundred dollars per year of eight months; this to be paid in advance, monthly or quarterly, at the option of the student. The tuition fee for the Patent Law course is forty dollars, for the course in Oratory fifteen dollars. A charge of ten dollars in all cases is made for diplomas, and two dollars for library fee each year. Board and lodgings, including heat and light, can be obtained in the city at prices ranging from five dollars per week upward.

A student who withdraws from the Law School in the course of an Academic Year is required to give immediate notice to the Registrar of the University.

No deduction from the full year's fees will be made in the case of a student withdrawing in the course of a year unless he gives this notice.

NOTICE. — College courses.

Regular students in the Law School will be admitted without additional fee, except matriculation and laboratory fees, to courses in the College aggregating not more than six hours a week, provided such courses shall not be counted toward any degree.

LAW LIBRARY AND READING ROOM.

A well-equipped working library, comprising 4,000 volumes, is open to the students in Law Lecture Hall from 9 a. m. to 10 p. m. Competent librarians are in charge and will give students assistance in looking up subjects and in the use of books.

The library contains the standard text books, the West Reporter system of Federal and State decisions complete, State Reports, the English Common Law and Chancery Reports, Encyclopedias of Law, Digests, reference books, and current law publications.

Adjoining the Library is a conversation room for students, affording opportunity for consultation.

In addition to these facilities, the students have free access to the great Congressional Library and other public libraries in the city.

ADMISSION TO THE BAR.

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by these rules the course in the Law School of the University is regarded as discharging this requirement.

PRIZES.

A prize of \$100, called "The Parker Prize," in honor of its donor, the Hon. Myron M. Parker, is awarded each year to the student who attains the highest general average in examinations during the full three years' course for the degree of Bachelor of Laws.

A prize offered by the Edward Thompson Company, of a set of the Encyclopedia of Law, first or second edition, or a set of the Encyclopedia of Pleading and Practice, is awarded each year to the regular law student who shall write the best thesis on some legal subject to be assigned by the Faculty.

Three prizes—one of \$40, one of \$30, and one of \$20—are annually given to the respective authors of the best three essays handed in by such members of the Third Year Class as shall compete for them and shall pass a successful examination.

A prize of \$25 in gold, called the "David S. Hendrick Memorial Prize in Insurance Law," in honor of Mr. David S. Hendrick, will be awarded each year to the student in the Second Year Class who writes the best essay upon some question in Insurance Law which will be selected and approved by the Faculty.

Two prizes for excellence in debate are awarded by the Debating Society.

Prize Annals, 1907.

M. M. Parker Prize.....	Samuel Herrick.
Edward Thompson Company Prize....	Arthur M. Churchill.
First Essay Prize.....	John Boye, Jr.
Second Essay Prize.....	Ralph L. Peck.
Third Essay Prize.....	E. N. Pageisen.
First Debater's Prize.....	J. W. Riddle, Jr.
Second Debater's Prize.....	Ben. L. Rich.

Graduates of the Law School with the degree of Bachelor of Laws are admitted without examination to the School of Comparative Jurisprudence and Diplomacy for the degrees of Master of Laws, Doctor of Civil Law, and Master of Diplomacy.

For catalogues and further information, address the

SECRETARY OF THE SCHOOLS OF LAW,

1420 H Street, Washington, D. C.

STUDENTS OF LAW.

Third Year Class.

<i>Name.</i>	<i>State.</i>	<i>Address.</i>
Altshuler, John Henry.	D. C.	1234 G Street. A. B., Columbian University.
Anderson, Dwight.	D. C.	1008 I Street.
Apple, Samuel Allison.	Ark.	753 I Street.
Baker, Tyler A.	Ky.	915 I Street.
Barber, Harry A.	N. Y.	1154 Connecticut Ave.
Barnes, John Howard.	Kans.	1215 I Street.
Barnett, Marcus W.	Idaho.	9 Grant Place. A. B., University of Id.
Beattie, Fountain Fox.	S. C.	1464 R. I. Avenue.
Bask, Benjamin Wexler.	Tenn.	311 D Street. B. S., Chattanooga Normal University.
Berry, Eugene Benton.	Md.	4300 Penn. Avenue.
Bethune, John Franklin.	D. C.	818 D Street N. E.
Boatner, John Stirling, Jr.	Cal.	2715 California Ave. A. B., Tufts University.
Bowker, Edgar Marshall.	N. H.	1224 12th Street.
Burton, George William.	Ill.	1110 I. Street.
Butts, Frank Graham.	N. Y.	922 F Street.
Cartwright, Morgan R.	Penn.	1018 12th Street. A. B., Tufts College.
Chaltee, John Gray.	D. C.	1112 N. H. Avenue.
Chase, George Griffith.	Kans.	1837 16th Street. B. S., Columbian University.
Clement, Charles Wolverton.	Penn.	1454 Howard Avenue. B. S., Bucknell University.
Clendening, Thomas C.	Ill.	1722 S. Street. Ph. B., University of Chicago.
Colbert, Richard.	Texas.	222 3d Street.
Crain, Jesse W.	Tenn.	..... L. B., Yale University.
Cram, Archer Parris.	Maine.	1318 I. Street.
Cronin, Patrick Daniel.	Mass.	1805 K Street. A. B., Boston College.

Name.	State.	Address.
Deis, John Homer.....	Ohio.....	1023 45th Street.
Duckett, Thomas Howard.....	Md.....	645 F Street.
Duvall, Andrew B., Jr.....	D. C.....	1831 M Street. A. B., Princeton University.
Evans, Fremont.....	Mich.....	Pension Bureau.
Evans, Maurice Preston.....	Va.....	718 15th Street.
Ewell, Ervin Edgar.....	Mich.....	1804 S Street. B. S., University of Michigan.
Fitz Gerald, William S.....	Iowa.....	1416 S Street.
Fluckey, I. N.....	Ill.....	1219 Mass. Ave., S. E.
Foley, William B.....	Ind.....	415 4th Street.
Foster, I. C.....	Va.....	503 C Street, S. E.
Franklin, Wallace C.....	Ky.....	13 1st Street, N. E.
French, Leon L. L.....	D. C.....	36 I Street.
Frick, Frederick William.....	Mo.....	1005 8th Street. A. B., A. M., Central Wesleyan College.
Garner, Harry Summers.....	Penn.....	Treasury Department.
Goshert, Christie Seymour.....	Ind.....	U. S. Fish Commission.
Graves, James Harwood.....	Va.....	1463 Kenesaw Avenue.
Haas, Edwin Booth.....	Va.....	1411 Chapin Street.
Hammons, Dick.....	Ind.....	1000 M Street.
Hartwell, De Witt T.....	Ill.....	1004 11th Street.
Heess, Albert F.....	Penn.....	709 13th Street.
Holzberg, Barend P.....	D. C.....	1011 24th Street.
Hyman Harry.....	Texas.....	606 9th Street.
Hutchinson, James Edwin, Jr.....	D. C.....	994 Penn. Ave., S. E.
Keener, J. W.....	Tenn.....	415 6th Street.
Lamborn, Charles Carrington.....	D. C.....	1510 S Street.
Liney, J. Roy.....	Penn.....	318 Indiana Avenue.
Lockwood, Carl J.....	D. C.....	21 7th Street, S. E.
Macatee, Charles Augustus, Jr.....	Va.....	1232 14th Street.
Mathewson, Claude L.....	Mich.....	419 9th Street, N. E.
Mayer, Charles David.....	Ohio.....	1829 Oregon Avenue.
McNeil, Walter Anderson.....	Tenn.....	1719 G Street.
McCabe, George P.....	Utah.....	434 Bates Street.
Morris, Claude Frank.....	Mo.....	1719 G Street.
Morris, Wilham L.....	Mass.....	Patent Office.
Mothershead, James Francis H.....	D. C.....	1322 6th Street.
Nelson, George Bliss.....	Wis.....	1828 H Street. B. L., University of Wisconsin.

Name	State	Address
Nelson, George Elborn	Va.	1018 15th Street
Norris, James I., Jr.	D. C.	331 C Street.
A. B., Princeton University.		
Oberlin, Paul	Va.	1550 8th Street.
Oberlin, Stuart Earl	Va.	1550 8th Street.
Pace, John Alonzo	Texas	1012 N Street.
Pack, Harold Jackson	Penn.	The Lexington
Pearson, Perry Spencer	Ga.	1400 R. I. Avenue.
A. B., Miami University.		
M. A., Cincinnati University.		
Peelle, Stanton Canfield	D. C.	The Concord.
A. B., Connecticut University.		
Pitcher, Eugene H.	Ill.	519 Erie Street.
Raderfinger, Frank G.	D. C.	1431 Chapin Street.
B. S., University of California.		
Rawlings, Richard Galt	D. C.	1505 Penn. Avenue.
Reinmiller, George William	Minn.	621 C Street, N. E.
Rhodes, John David	Ohio	321 H Street, N. E.
Robinson, Frank Stuart	Iowa	1005 15th Street.
A. B., Iowa Wesleyan University.		
Rogers, Clyde L.	N. Y.	511 C Street, N. E.
A. B., Alfred University.		
Sands, Herbert R.	Ill.	1123 11th Street.
Seaven, Edward W., Jr.	S. C.	1419 I Street.
A. B., South Carolina College.		
Seft, Christian	Penn.	
Simpson, Lacey M.	Kans.	724 9th Street.
Stevenson, William C.	Md.	
Stewart, Thomas P.	Kans.	1014 K Street.
A. B., Baker University.		
Swallow, Howard A.	Ill.	28 Winder Building.
A. B., DePaul University.		
Swan, Arthur Rogers	D. C.	
Swift, Granville Richard	Va.	915 I Street.
B. A., Georgetown College.		
Taggart, E. H.	Ohio	Hotel Baltimore.
Tenfel, Herman A.	Penn.	1114 14th Street.
Thompson, Ward Eginton	Ill.	1004 11th Street.
Todd, George Carroll	Va.	1501 Kenesaw Ave.
B. S., Georgetown University.		

Name	State	Address
Tower, Edwin B. H., Jr.	N. Y.	1219 Princeton Street.
Trickey, Corriion Heath	D. C.	1907 L Street.
Twohey, John Theodore	Vt.	3541 16th Street.
Tulloch, Henry Vanderbilt	D. C.	1800 Wyoming Ave.
A. B., Princeton University.		
Vass, George O.	Idaho	1316 L Street.
Vincent, Eutham W.	Ind.	1912 G Street.
Watson, James M. A.	Ky	1814 M Street.
Webb, William P., Jr.	Va.	1538 I Street.
White, Wallace H., Jr.	Maine.	1208 M Street.
A. B., Bowdoin College.		
Williams, Robert L.	Colo.	1313 I Street.
Wilson, Sidney Stuart	Mo.	929 Virginia Avenue.
Wilson, Thomas Benton	Wash.	221 A Street, N. E.
Yarch, Charles Frederick	Ohio	901 M Street.
Yonmans, George Faust	Ark.	306 M Street.
B. S., University of Missouri.		

Second Year Class.

Name	State	Address
Adams, Benjamin Franklin	N. H.	1219 L Street.
A. B., Dartmouth College.		
Adams, William F.	Wis.	20 3d Street, S. E.
A. B., University of Wisconsin.		
Alexander, Edward Renick	Ohio	1919 K Street.
M. E., Cornell University.		
Anderson, Edward Dimming	D. C.	2813 14th Street.
Baley, Lewis J.	Tenn.	616 G Street.
Barnhart, Joseph H.	Ill.	721 19th Street.
Barnum, Zenas F.	Md.	816 15th Street.
Bell, David Wilkinson	N. C.	1331 Kenesaw Ave.
Berry, George Augustus	D. C.	1253 G Street.
Boring, J. Randall	Ky.	The Ebbitt.
Bourne, Martin	Minn.	512 B Street, N. E.
Boyd, Daniel	Ind.	324 B Street, S. E.
Brady, Charles E.	Wis.	1219 M Street.
Brandt, Ralph V.	Ind.	216 3d Street.
Breitenbacher, Edward Emile	Cal.	1224 13th Street.
Brewer, John	Md.	631 Penn. Avenue.
Britton, Herbert Irving	N. C.	1104 13th Street.

Name	State	Address
Brooks, Stephen Allen	D. C.	508 C Street, S. E.
Brown, Arthur H.	Mass.	1906 H Street.
B. S., Massachusetts Institute of Technology.		
Brown, Frank D.	N. Y.	1501 Park Street.
Brown, Wm. Walton	Tenn.	2034 Hallowell Place.
Buikley, Robert Crandall	Wis.	1544 Caroline Street.
Butler, Charles Amoss	Ind.	1422 N Street.
Calloun, Patrick N.	S. C.	1327 M Street.
Churchill, Arthur M.	Wis.	100 2d Street, N. E.
A. B., University of Wisconsin.		
Clark, Christopher T.	D. C.	909 R Street.
A. B., Johns Hopkins University.		
Clark, Edward Tracy	Mass.	4th and College Sts.
A. B., Amherst College.		
Clarkson, Edgar J. W.	D. C.	514 F Street.
Clift, Thomas Reed	D. C.	1434 Chapin Street.
Coon, Byron McP.	Md.	1322 U Street.
Coryell, Claude H.	Mich.	2224 N Street.
Cowhick, O. Glenn	Wyo.	1224 I Street.
Cram, Charles Maurice	Maine	1318 L Street.
A. B., Cornell University, Ithaca, N. Y.		
Culver, George Bliss	Calif.	Woodley Inn.
A. B., Leland Stanford, Jr., University.		
Currie, Heber B.	Texas	The Riggs.
Davis, Arthur L.	Ill.	943 K Street.
Davis, George Henry	Mass.	821 16th Street.
Davis, William Hammatt	N. Y.	1824 Cal. Avenue.
Davison, Frederic L.	N. J.	1624 15th Street.
De Forest, Sylvester Tillman	Ind.	Library of Congress.
Denny, Walter McKinnon, Jr.	Miss.	922 I Street.
Dobbs, Charles Loddie	Mass.	
Dodge, Moncema Myles	Mass.	The Albemarle.
Eichelberger, Fred Benton	Ohio	943 K Street.
Ellison, William Bascom	Tenn.	415 6th Street.
A. B., University of Tennessee.		
Engel, Richard D.	Mass.	1634 3d Street.
English, Walter Charles	D. C.	2907 P Street.

Name.	State.	Address.
Evans, Jess Donald	Penn.	The Cumberland.
U. S., Department of Agriculture.		
Faddeley, Howard Malone	Va.	1414 N Street.
Fitch, James Monroe	Ohio.	1919 K Street.
Ph. B., Ohio State College.		
Fletcher, Henry F.	Conn.	1304 I Street.
Francis, John, Jr.	Kans.	1134 Conn. Avenue.
Franklin, Blake	Ill.	141 Md. Ave., N. E.
Fulgham, Hamden McKey	Miss.	1207 10th Street.
Fuller, Hubert Bruce	Conn.	1615 Florida Avenue.
A. B., Yale University.		
Gardner, Augustine V., Jr.	Minn.	1409 20th Street.
Goodell, Richard A.	Wis.	231 N. Capitol Street.
B. L., University of Wisconsin.		
Graham, R. Hunter	W. Va.	1412 15th Street.
Grant, William John	Penn.	1006 I Street.
Greene, Foster Ragnier	Mass.	1829 G Street.
A. B., Harvard University.		
Greenlaw, R. M.	N. H.	1208 M Street.
A. B., Bowdoin College.		
Grimwell, Charles V.	Va.	1515 30th Street.
Guyton, Thomas Percy	Miss.	Treasury Dep't.
Hahn, M. Perry	D. C.	1323 Concord Street.
Hamlin, Ray Franks	Ohio.	1415 K Street.
Harbaugh, James William	Ohio.	1911 G Street.
Hargrove, John Lawson	D. C.	734 12th Street.
B. S., A. B., Ohio State College.		
Hattabaugh, M. Reese	Idaho.	240 A Street, S. E.
Hawley, Jess B.	Idaho.	9 Grant Place.
Hearin, Jesse Bethou	Ala.	1019 P Street.
Henkle, Rae D.	Ohio.	1415 K Street.
Hinton, B. E.	Ark.	734 12th Street.
B. S., Ohio State College, Ark.		
Holsopple, Guy	Penn.	946 New York Ave.
Houston, David N.	Penn.	1411 10th Street.
Ph. B., Princeton College.		
Hulbish, Paul B.	Va.	
Jenks, Royal Granville	La.	951 Mass. Avenue.
Johns, Luther	Penn.	935 G Street.
B. S., Virginia Polytechnic Institute.		

Name	State	Address
Josephsson, Axel	Ill.	1516 A Street.
Kalver, Jacob	Ohio	Treasury Dep't.
Kenn, John W.	Iowa	1014 K Street.
Kelcher, James Power	N. Y.	1516 51st Street.
Kellogg, Almon C.	D. C.	118 D Street, N. E.
Keyser, Paul V.	Iowa	208 F Street.
Kreps, Charles A.	W. Va.	727 12th Street.
A. B., Marquette College, Chicago.		
Kress, Charles McKee	Penn.	1103 H Street.
Kuck, Julius A., Jr.	N. Y.	1104 13th Street.
Lanash, William L.	Penn.	124 E Street, N. E.
Leonard, James H.	Va.	1304 L Street.
Lewis, Benjamin Adams	N. Y.	1811 3d Street, N. E.
Lewis, John Oliver	Ark.	121 E Street, N. E.
Linkins, William H.	D. C.	1923 G Street.
Littelpage, Thomas Price	Ind.	Census Office.
Lombard, Percy N. H.	Maine	621 M. J. Ave. N. E.
London, Henry M.	N. C.	1417 20th Street.
A. B., University of North Carolina.		
Loyd, Elbert H.	N. Y.	1404 Florida Avenue.
A. B., George University.		
Mack, James W.	Penn.	917 16th Street.
A. B., Princeton University.		
Main, Charles Wellington	Md.	1617 17th Street.
A. B., Georgetown University.		
Malloy, William Martin	Ill.	Logan Hotel.
Manson, Lester C.	Wis.	1327 14th Street.
Martin, Harold H.	Kans.	1134 Conn. Avenue.
A. B., Marand College.		
Matthews, Dan	W. Va.	1012 12th Street.
McCartney, Hartwell C.	D. C.	3123 Dumbarton Ave.
A. B., Lafayette College.		
McLaughlin, James A.	Calo.	404 M Street.
Melton, Commodore Perry	Ind.	1529 Concord Street.
Michener, Earl Cory	Mich.	1013 L Street.
Milans, Calvin Talkington	D. C.	1222 N. H. Avenue.
Mitchell, Phelps	Mo.	U. S. Senate.
Moore, Harlan	Ky.	1519 R. I. Avenue.
A. B., Cornell University.		

Name	State	Address
Moore, Milton D.	S. C.	805 A Street, S. E.
Moulton, Harry Dodge.	D. C.	1103 N. H. Avenue.
Musgrave, Cecil.	Texas	1931 K Street.
Muskat, Carl.	Wis.	1903 G Street.
Myers, Albert P.	Kans.	1206 M Street.
A. B., Brown University.		
Nelson, Albert Le Roy.	Minn.	736 12th Street.
Nelson, Newell P.	Utah	1329 L Street.
O'Bryon, George Elmer.	N. Y.	1813 F Street.
Osgood, Roy C.	Mass.	710 3d Street, S. E.
Page, George Edgar.	Wis.	720 S Street.
Pendarvis, Charles Roy.	Ill.	710 10th Street.
A. B., Knox College.		
Pentfield, Walter Scott.	Ind.	Dewey Hotel.
A. B., University of Washington.		
Perry, Frank Howard.	Ala.	1019 P Street.
Pfirman, Franklin.	Ohio	929 New York Ave.
Phillips, Edison.	N. Y.	Interior Department.
Pratt, Walter Scott, Jr.	D. C.	9 Iowa Circle.
Randall, William Gallup.	Cal.	810 9th Street, N. E.
Reece, Harvey William.	Mass.	Armour & Co.
Reed, Clyde.	Penn.	1206 F Street.
Rich, Ben. Leroy.	Idaho	U. S. Senate.
Rittenour, Richard Danner.	Va.	1300 Penn. Avenue.
Roberts, C. M.	Md.	918 23d Street.
Sabin, Edwin M.	Wis.	1919 K Street.
Sagmeister, Joseph.	Ohio	1444 R. I. Avenue.
Service, Fred Ansley.	Penn.	204 C Street.
Shafer, Benjamin Paul.	Ohio	1302 L Street.
Shore, Francis Marion.	Ohio	1225 N. J. Avenue.
Smith, Ralph L.	Penn.	Treasury Department.
A. B., University of Georgia.		
Spink, Charles Alexander.	Iowa	1722 S Street.
Stockman, Fred William.	Mo.	1221 Princeton Street.
Stephan, David Edgar.	D. C.	Hotel Gordon.
Stewart, Francis Marion, Jr.	Ind. T.	1918 L Street.
Sumner, Charles Johnstone.	Wis.	1383 Kenesaw Avenue.
Swift, Herman Holst.	Cal.	917 14th Street.
Thomas, Henry G.	Va.	806 6th Street.
Thompson, Albert L.	Iowa	143 N. C. Avenue.

Name	State	Address
Thompson, Henry Rice	Maine	2025 Hillyer Place.
Tibbets, Milton	Maine	117 10th Street, N. E.
Tongue, Thomas H., Jr.	Oregon	1312 15th Street. B. S., Pacific University.
Torres, Louis P.	P. I.	1335 I Street. B. A., University of Madrid.
Underwood, Linna D.	Ind.	U. S. Patent Office. B. S., Columbian University.
Voorhees, Chas. Francis	D. C.	1729 17th Street.
Waterman, Jason	Mich.	59 Q Street, N. E.
Watson, Harry Lee	N. J.	1008 M Street. A. B., Brown University.
Whitcomb, Frank S.	Ohio	218 N. J. Avenue
White, E. Russell	Va.	1317 M Street.
White, Hugh Hamilton	Ala.	1309 14th Street. A. B., University of Georgia.
Whitney, Carl Everett	N. Y.	736 3d Street. B. S., Columbian University.
Wilson, Francis Cushman	Mass.	1231 Harvard Street.
Wilson, Louis C.	D. C.	1324 S Street.
Winders, Charles Henry	Ill.	710 10th Street.
Wood, Charles H.	Ill.	1395 H Street.
Wynn, Thomas Duncan	Ark.	713 L Street.

First Year Class.

Name	State	Address
Adee, Graham Montrose	D. C.	1919 Van Street.
Aunt, Risley Goldsborough	D. C.	2110 H Street.
Baggaly, Franklin Clyde	Va.	Emory.
Bailey, Donald Herbert	Ill.	... A. B., University of Chicago.
Baker, J. Newton	Penn.	Coast and Geod. Surv.
Batting, William Heyburn	N. J.	1904 G Street. A. B., Princeton University.
Beatty, George F.	Kans.	Dept of Agriculture.
Becker, John Richard	Ill.	1446 N St.
Belitz, Arthur Frederick	Wis.	640 6th Street, N. E.
Belote, Albert Sidney	Va.	631 G Street.
Bennett, Robert Root	Ind.	222 Seaton St., N. E.

Name	State	Address
Benson, Fred Hodges	N. Y.	1612 8th Street.
Berry, Charles W.	D. C.	1253 G Street, S. E.
Biehski, Alexander Bruce	D. C.	412 10th Street, S. W.
Bon Durant, Edgar H.	Md.	P. O. Department.
Booth, Stephen K.	Minn.	811 G Street, N. E.
Brosius, S. M.	D. C.	McGill Building.
Brown, Phelps	D. C.	1405 21st Street.
Browne, Evans	D. C.	1528 P Street.
Cadel, John Schaaff	N. Y.	805 E. Capitol Street.
Carlsie, James Mandeville	D. C.	1722 I Street.
B. A., Yale University.		
Chapman, Charles H.	Ill.	1919 K Street.
A. B., University of Illinois.		
Chattfield, Alonzo Bradley, Jr.	Ill.	3400 16th Street.
Church, Weas Leggett	Mich.	U. S. Patent Office.
Clark, Fred F.	D. C.	612 F Street.
Cook, Paul De Barr	Wis.	716 6th Street, N. E.
Crain, John Jay	Val.	The Marion.
M. L., Cornell University.		
Cram, Matthew Alexander	Ky.	Dep't of Labor.
Davidge, John Washington	D. C.	1624 H Street.
Davis, Leslie Ammerton	N. Y.	1539 I St.
Ph. B., Cornell University.		
Eberly, Somers Love	Ohio	1623 Mass. Avenue.
Eisenthrop, Jacob	Iowa	901 8th Street, N. E.
Ely, Orville Ray	Ill.	721 11th Street.
Emery, Frank Dow	D. C.	1325 Columbia Road.
Evans, Edward Suptoe	Val.	400 N. J. Ave., S. E.
Evans, Francis X. C.	D. C.	414 A Street, S. E.
Field, William F.	Ind.	1729 34 Street, N. E.
Finkelstein, Henry Charles	Turkey	619 P Street.
Flournoy, Richard Wilson, Jr.	Md.	1129 14th Street.
Fox, Charles James	Mass.	1761 Q Street.
Ph. D., Boston University.		
France, Ira O.	Ohio	10 4th Street, S. E.
Frey, Morris Fairfax	D. C.	1405 31st Street.
Fritsche, William John	Ohio	10 3d Street, N. E.
Fuller, Charles Franklin	N. Y.	612 L Street, N. E.
B. S., Columbia University.		
Fuller, Leslie C.	Mich.	1830 H Street.

Name	State	Address
Fuller, Weston.	Ill.	1801 F Street.
Geddes, Bond P.	Neb.	128 A Street, N. E.
Gordon, Erskine.	D. C.	6 Cooke Place.
Goodrick, John T., Jr.	Va.	511 3rd Street.
Godwin, Edward Clark.	Idaho	1604 K Street.
A. B., Western Maryland College.		
Goode, Mark.	Ill.	Garrett Park, Md.
Goddard, James D.	D. C.	3077 Dumbarton Ave.
Graham, Richard M.	Oregon	226 F Street, N. E.
Graham, William Russell.	D. C.	1535 F Street.
Greer, Arthur L.	Cal.	1402 6th Street.
Gurliksen, Henry	N. D.	1205 M Street.
Hackney, William Clyde	Ohio	1529 Q Street.
Haines, Milton	Ohio	1210 Mass. Avenue.
Hammond, Lawrence Kent	Penn.	4 B Street.
Hau, Carl.	Germany	1405 Columbia Street.
A. B., Pennsylvania State University.		
Heckman, Harry Clayton	Penn.	1006 N. C. Ave., S. E.
Henpain, William Albert	D. C.	926 B Street, S. W.
A. B., Harvard University.		
Hellerstadt, Carl Johann	Tenn.	311 D Street.
Hindman, Philip Rex	Penn.	1008 J Street.
Hoffman, Daniel O. N.	Wis.	1513 30th Street.
Hunter, Edgar J.	Idaho	U. S. Senate.
Hurd, Walter Clarence	Utah	904 M Street.
Hurroy, Clarence B.	Mich.	1002 Mass. Avenue.
B. L., University of Michigan.		
Irving, Benjamin	Oregon	Brightwood, D. C.
Jewell, Goldwin G.	Ind.	721 19th Street.
Jones, Oliver P.	Texas	825 5th Street.
Keldinger, William Wilbur	Va.	1229 Harvard Street.
Klawans, Samuel Thomas	Md.	848 H Street, N. E.
Knowlton, John Wellington	Mass.	House of Rep's.
A. B., Tufts College.		
Kruse, Fred Henry	Ohio	10 3d Street, N. E.
Layne, Carney Milton	Ohio	1205 M Street.
Leach, Boynton McConnell	D. C.	1604 K Street.
B. S., Connecticut University.		
Leh, William Henry	Penn.	33 B Street, S. E.
Leonard, Fred James	Mich.	1812 G Street.

Name	State	Address
Lightfoot, John Jerome	D. C.	McGill Building.
Lindal, Lewis Forest	N. Y.	611 22d Street.
Loud, Charles Sumner	Mich.	110 C Street, S. E.
Mann, Ray	Ky.	2506 University Place.
Mason, Mynadier M	D. C.	1827 H Street.
Masterson, Mahlon Curtis	Cal.	131 Md. Ave., N. E.
McCormick, Alex. Hugh, Jr.	Va.	2910 14th Street.
McCullough, N. N.	Ill.	406 11th Street, N. E.
McCurran, David Cornelius	Ind. T.	509 P Street.
Merritt, Leonard Atkins	Minn.	154 F Street, S. E.
Murphy, John Francis	Maine	1208 M Street.
A. B., Holy Cross College		
Myers, Charles Sumner	Ohio	Post-office Dep't.
Nase, Robert Ludlow	Va.	721 11th Street.
Neale, C. Ashford	Va.	15th St. & N. Y. Ave.
Nesmith, Nelson P.	Minn.	1250 10th Street.
Norris, John Lawson	D. C.	625 T Street.
M. D., Nazareth University		
Pambaker, Reuben John	Wis.	1901 I Street.
Parish, Robert Latta	S. C.	1323 Q Street.
A. B., South Carolina College		
Perry, Louis F.	Mich.	402 9th Street, N. E.
Person, Robert S.	S. D.	3210 U Street.
Peterson, Frank W.	Mich.	Pension Office.
Phillips, Francis	Maine	1429 9th Street.
Pierce, Henry Fletcher	Mo.	819 N. C. Ave., S. E.
Plummer, Frank Lincoln	Minn.	513 6th Street.
Pollock, Andrew Gray	Va.	2007 I Street.
Pratt, Elwood S.	D. C.	1334 19th Street.
Proctor, James McPherson	Md.	507 E Street.
Raley, James Roy	Oregon	18 Grant Place.
Rogers, Carl McLean	Ill.	1500 Lydecker Ave.
Roome, Henry Sherburne	N. Y.	1445 W Street.
Russell, Arthur Lyman	Mich.	1349 Md. Ave., N. E.
Russell, William Henry	Penn.	1445 W Street.
Scott, Thomas Allen	Mo.	23 Quiney St., N. E.
B. S., Kansas Normal College		
Self, Clayburne Orin	Ind.	30 Quiney Street.
Sherier, James Thomas	D. C.	Conduit Road, D. C.
Sherier, Joseph Tyler	D. C.	Conduit Road, D. C.

Name	State	Address
Shibley, James George	Kans.	1752 M Street.
Skiles, Ambrey Madison	Ohio	652 O Street N. E.
A. B., Northwestern University		
Smith, Clarke Stull	Ill.	17 Iowa Circle.
Snell, Arthur Vester	N. Y.	Treasury Department.
B. L., Harvard College		
Ph. B., University of Chicago		
Snow, Hubert Macey	D. C.	
Taylor, J. Waldo	Ohio	1119 H Street.
Thorn, James A.	D. C.	1802 16th Street.
Toombs, William R.	Miss.	The Logan.
A. B., University of Chicago		
Tripp, James Orlando	Ohio	1131 5th Street.
Valentine, Edson Baine	Mich.	1002 Mass. Avenue.
Varnum, James H.	Penn.	1103 H Street.
Wagner, Meyer	Texas	1126 6th Street.
Walker, Richard Dore	D. C.	627 Md. Ave., S. W.
Ward, Amasa J.	Iowa	1602 N. C. Ave., N. E.
Warner, Lee Frost	Minn.	1637 15th Street.
Watson, Richard Furman	S. C.	1010 N Street.
B. A., Princeton University		
Wayman, Edward F., Jr.	Va.	Fluore.
West, John Roman	Del.	1219 K Street.
Willey, Israel Emerson	Utah	904 East Capitol St.
Williams, Hugh, Jr.	N. Y.	301 D Street.
Wilmeth, Warner Lambeth	Texas	3 F Street.
Wilson, Jesse Henry, Jr.	D. C.	2914 P Street
A. B., Cornell University		
Yarberry, M. Rey	Ky.	915 J Street.
Ye, Seungku	Korea	1509 15th Street.
Yundt, Arthur Eugene	D. C.	931 K Street.

Students on Patent List.

Name	State	Address
Able, Robert Fohler	S. C.	961 M Street.
A. B., Louisiana College		
LL. B., LL. M., D. C. L., Georgetown University		
Bissing, William	Md.	1509 Vermont Ave.
A. B., Johns Hopkins University		
B. S., Ohio State University		

Name	State	Address
Booth, Thomas Butler	Conn.	47 S. Street.
S. E. Mendenhall, President of University.		
Brown, Eugene C.	Penn.	7 Quincey Street, N. E.
E. E. Lehigh University. U. E. National Law School.		
Burnham, Royal Edwin	D. C.	Rand Building.
U. E. Lehigh University. U. E. National Law School.		
De Wern, George Frederick	N. Y.	248 Patent Office.
M. E. Cornell University. U. E. National Law School.		
Dunn, W. C. Mann	Va.	1224 14th Street.
Fowler, Owen Henry	D. C.	1811 3d Street, N. E.
U. E. Cornell University.		
Freudenreich, William F.	Ind.	Patent Office.
E. S. Mass. Institute of Technology. U. E. National Law School.		
Gardiner, John Urquhart	Wis.	516 T Street.
U. E. Cornell University. U. E. National Law School.		
Handy, Levin Gossford	D. C.	494 Md. Ave., S. W.
Howell, Joseph William	Mich.	630 I Street.
U. E. Cornell University.		
Hubbell, John E.	Ill.	Patent Office.
E. S. Mass. Institute of Technology. U. E. National Law School.		
Jackson, William Steell	Penn.	325 Spruce Street.
E. E. Lehigh University. U. E. National Law School.		
Johnson, Benjamin Robert	N. Y.	1829 G Street.
A. B. Hamilton College. U. E. Cornell University.		
Kitchin, Edgar Modan	Kans.	1125 Park Place, N. E.
U. E. Cornell University. U. E. National Law School.		
Metzler, Grafton Louis	D. C.	1822 H Street.
U. E. Cornell University.		
Morgan, Charles Howard	Penn.	41 R Street.
E. E. Lehigh University. U. E. National Law School.		
Morris, William L.	Mass.	2110 H Street.

Name	State	Address
Moulton, Alston Brintnall S. D., Worcester Polytechnic Inst. 1905.	Mass.	1249 11th Street.
LL. B., LL. M., Georgetown University.		
Pageesen, Edward M.	Mich.	1113 I Street.
LL. B., Georgetown University.		
Proctor, Alfred Waters	Mass.	1431 R. I. Avenue.
LL. B., Georgetown University.		
Reinhold, William Parker	D. C.	611 Q Street.
LL. B., Georgetown University.		
Rich, William James	Mass.	208 Hill Street, S. E.
S. D., Massachusetts Institute of Technology.		
LL. M., Georgetown University.		
Ruckman, John Hiram	Mich.	111 7th Street, S. E.
J. S., University of Michigan.		
LL. B., National Law School.		
Spear, Ellis, Jr.	D. C.	1501 Park Street.
A. B., Bowdoin College.		
B. S., Georgetown University.		
Twohey, James A.	Vt.	1344 16th Street.
LL. B., Harvard University.		
Wooster, Julian Scott	Conn.	1906 H Street.
LL. B., Georgetown University.		
Workman, Henry Charles	Mich.	1221 Yale Street.
B. S., LL. B., Georgetown University.		

Special Students

Name	State	Address
Anderson, Cyrus N.	D. C.	2119 F Street.
LL. AL., M. P. I.		
Browne, Frederick W.	Iowa	1514 12th Street.
LL. B., Georgetown University.		
Calfee, Robert Martin	Va.	The Logan.
A. B., Bowdoin College.		
LL. B., Georgetown University.		
Carroll, Charles Cephas	D. C.	29 5th Street, N. E.
A. B., A. M., Mt. Union College, O.		
Cattlett, U. S.	Tenn.	1129 17th Street.

Name	State	Address
Chambers, Lyman K.	Ohio . . .	318 Indiana Avenue. U. B., Cincinnati University
Clark, Charles Cleveland	Penn . . .	1702 P Street. U. B., U. M., D. C. E., Commonwealth University
Clark, Roland Eugene	Maine . . .	1208 M Street. A. B., Bowdoin College
Davis, William H	Ind.	1528 Rosedale St., N. E. U. B., Cincinnati University
Fehr, Carl Fred	Kans . . .	618 22d Street.
Murphy, George	Alaska . .	Normandie Hotel.
Plumley, Walter P	D. C. . . .	408 H Street. U. B., Georgetown University
Poultney, W. W.	D. C. . . .	3409 Holmead Avenue. U. B., M. P. E.
Smith, Homer A. A.	Colo. . . .	311 3d Street, N. E. Ph. B., University of Colorado U. B., Cincinnati University
Stauffer, Henry E.	Del.	2407 M Street. U. B., M. P. E.
Tate, Lucius Eugene	Ga.	912 I Street. A. B., University of Georgia
Warner, Charles Joseph	Neb. . . .	931 N. Y. Avenue. B. S., University of Nebraska
Woolsey, Lester H.	N. Y. . . .	1918 I Street. A. B., Harvard University
Wright, Herbert	Md.	248 Patent Office. U. B., M., Columbian University

Recapitulation

Third or Senior Year	402
Second or Middle Year	161
First or Junior Year	140
Students in Patent law	29
Special students in law	19
Total	451

SCHOOL OF COMPARATIVE JURIS- PRUDENCE AND DIPLOMACY.

THE GRADUATE COURSE.

BOARD OF VISITORS.

Hon. MELVILLE W. FULLER, LL. D.,
Chief Justice of the United States.

Hon. JOHN HAY, LL. D.,
Secretary of State.

Hon. LYMAN J. GAGE, LL. D.,
Formerly Secretary of the Treasury.

Hon. HENRY B. BROWN, LL. D.,
Associate Justice of the Supreme Court of the United States.

Hon. CHAUNCEY M. DEPEW, LL. D.,
United States Senator from New York.

Hon. JOHN F. DILLON, LL. D.,
Formerly Judge of the Circuit Court of the United States.

Hon. WILLIAM LINDSAY, LL. D.,
United States Senator from Kentucky.

Hon. FRANK A. VANDERLIP,
Formerly Assistant Secretary of the Treasury.

THE FACULTY.

Rev. SAMUEL H. GREENE, D. D., LL. D.,
President pro tempore.

CHARLES W. NEEDHAM, LL. D.,
Dean,

The Common Law: Transportation and Interstate Commerce
 Law.

Hon. JOHN M. HARLAN, LL. D.,
 (Associate Justice of the Supreme Court of the United States),
 Constitutional Law, Comparative Constitutional Law, and
 Conflict of Laws.

Hon. DAVID J. BREWER, LL. D.,
 (Associate Justice of the Supreme Court of the United States),
 International Law.

Hon. JOHN W. FOSTER, LL. D.,
 (Ex-Secretary of State),
 Diplomacy and Treaties of the United States; Duties of
 Ambassadors, Ministers, and Consuls; Boards of
 Arbitration.

Hon. DAVID J. HILL, LL. D.,
 (Assistant Secretary of State),
 European Diplomacy and Treaties.

Hon. WILLIAM WIRT HOWE, LL. D.,
 (of the New Orleans Bar),
 Ancient Law, Roman Law, Medieval and Modern Civil Law.

JOSEPH FRENCH JOHNSON, A. B.,
 (of the New York University),
 Money, Credits, and Foreign Exchange.

Hon. MARTIN A. KNAPP, LL. D.,
 (Chairman Interstate Commerce Commission),
 Interstate Commerce Law.

SCHOOL OF JURISPRUDENCE AND DIPLOMACY. 177

Hon. CARROLL D. WRIGHT, LL. D.,
(Commissioner of the Department of Labor,
Statistics and Social Economics.

CHARLES C. SWISHER, Ph. D.,
Comparative Politics and Political Geography.

JOHN W. HOLCOMBE, M. Div.,
Assistant Professor, Political Science.

CHARLES RAY DEAN, M. Div.,
Assistant Professor, European Diplomacy.

ORMSEY MCHARG, D. C. L.,
Assistant Professor, Roman Law.

SPECIAL LECTURES.

Hon. LYMAN J. GAGE, LL. D.,
(Formerly Secretary of the Treasury),
Public Finance, Money, and Credits.

EDWARD M. GALLAUDET, Ph. D., LL. D.,
President and Professor of Moral and Political Science,
Gallaudet College,
The Treatment of Enemy Property on the Sea.

EDWARD H. STROBEL, LL. B.,
(of Harvard University),
Jurisprudence of France and of Spain.

N. W. HOYLES, Q. C.,
(Principal of Toronto Law School),
Jurisprudence of Canada.

GUY CARLETON LEE, Ph. D.,
(Johns Hopkins University),
Comparative Politics.

During the academic year 1901-1902 the following additional special lectures were delivered:

Hon. WILLIAM P. FRYE

(President *pro tempore* of the United States Senate),

"Subsidizing American Ships."

Hon. HENRY B. F. MACFARLAND

(President, Board of District Commissioners),

"The Government of the District of Columbia."

Hon. FEDERICO DEGETAU

(Resident Commissioner from Porto Rico),

"The Political Status of Porto Rico."

Hon. JOHN R. PROCTER

(President, Civil Service Commission),

"The Jurisdiction and Administration of the Civil Service Commission."

Hon. WILLIAM DUDLEY FOULKE

(Civil Service Commissioner),

"The Desirability of Examinations for the Diplomatic and Consular Service."

Hon. MILTON E. AILES

(Assistant Secretary of the Treasury),

"The Evolution of Bank Credits."

Hon. JOHN BARRETT

(Delegate of the United States to the International Conference of American Republics and ex-Minister to Siam),

"The Constitution and Work of the Pan-American Conference."

Hon. CHARLES A. CONANT

(Treasurer Morton Trust Co., New York),

"The Future of the Philippines."

CHANNING RUDD, LL. M.,

of the Washington Bar,

Librarian.

J. HENRY ALTSCHUL, A. B.,

Assistant Librarian.

PERRY S. PEARSON, M. A.,

Assistant Librarian and Assistant to the Secretary.

CHANNING RUDD, LL. M.,

Secretary of the Schools of Law.

Special lectures upon the jurisprudence of England and her Colonies, Germany, Austro-Hungary, Italy, and Colonial Law will be announced during the year.

A course of lectures upon the Organization of the Diplomatic Service of Other Nations, the History of International Conventions, and the Lives of Great Men will be delivered by some of the Diplomatic Corps resident in Washington and by other distinguished public men.

ASSIGNMENTS.

First Year.

CONSTITUTIONAL LAW OF THE UNITED STATES. One hour.*

PROFESSOR HARLAN. *Study on the Constitution.*

COMPARATIVE CONSTITUTIONAL LAW. One hour, one-half year.

PROFESSOR HARLAN.†

CONFLICT OF LAWS. One hour, one-half year. PROFESSOR HARLAN. *Minor.*

INTERNATIONAL LAW. One hour. PROFESSOR BREWER. *Half.*

ROMAN LAW. One hour, one-half year. PROFESSOR HOWE. *Studies in the Civil Law — Hours.*

* Unless otherwise stated, hours per week throughout the year.

† No next week.

TRANSPORTATION AND INTERSTATE COMMERCE LAW. Two hours.
PROFESSOR NEEDHAM.*

HISTORY OF DIPLOMACY AND TREATIES OF THE UNITED STATES.
One hour, one-half year. PROFESSOR FOSTER. *A Century of
American Diplomacy.*—Foster.

STATISTICS AND SOCIAL ECONOMICS. One hour. PROFESSOR
WRIGHT. *Practical Sociology.*—Wright.

COMPARATIVE POLITICS AND POLITICAL GEOGRAPHY. One hour.
PROFESSOR SWISHER.*

ADMINISTRATIVE LAW.* One hour, one-half year.

CLASS CONFERENCE, COMPARATIVE POLITICS. One hour. MR.
HOLCOMBE.

CLASS CONFERENCE, ROMAN LAW. One hour. MR. McHARG.

LATIN, FRENCH, GERMAN, AND SPANISH. (Special.)

ELECTIVE COURSES. (See Law School Catalogue.)

COMMON LAW PLEADING.

EQUITY PLEADING AND PRACTICE.

TESTAMENTARY PRACTICE AND PLEADING.

LEGAL ETHICS, AND THE PREPARATION, TRIAL, AND ARGU-
MENT OF CASES.

MODEL COURT WORK.

Five hours each week will be devoted to class discussions and
conferences, conducted by professors and instructors.

Second Year.

PRACTICE OF DIPLOMACY, ORGANIZATION OF THE STATE DEPART-
MENT, DUTIES OF AMBASSADORS, MINISTERS, AND CONSULS, AND
INTERNATIONAL ARBITRATION.* One hour. PROFESSOR FOSTER.

HISTORY OF EUROPEAN DIPLOMACY AND TREATIES. One hour.
PROFESSOR HILL.

* No text-book.

SCHOOL OF JURISPRUDENCE AND DIPLOMACY. 181

LAWS OF ANCIENT NATIONS.* One hour.

- (a) History and General Principles of the Laws of India, Egypt, Palestine, and Greece. PROFESSOR HOWE.
- (b) A General View of the Law in Europe during the Middle Ages. PROFESSOR HOWE.

ROMAN LAW.* One hour.

- (a) History and General Principles of Roman Law to and including the time of Justinian. PROFESSOR HOWE.
- (b) The Extension of the Roman Law into some of the Modern States. PROFESSOR HOWE.

THE COMMON LAW OF ENGLAND; ITS HISTORY AND EXTENSION INTO SOME OF THE MODERN STATES. One hour. PROFESSOR NEEDHAM.

JURISPRUDENCE OF FRANCE AND SPAIN. PROFESSOR STROUPE.

JURISPRUDENCE OF CANADA. PROFESSOR HOYLES.

INTERNATIONAL LAW.* One hour, one-half year. PROFESSOR BREWER.

INTERSTATE COMMERCE LAW. One hour, one-half year. PROFESSOR KNAPP.

INTERNATIONAL TRADE AND COMMERCIAL GEOGRAPHY.* One hour, one-half year.

FINANCE.* One hour. PROFESSOR JOHNSON.

COMPARATIVE POLITICS. One hour. PROFESSOR SWINTELL.

CLASS CONFERENCE, COMPARATIVE POLITICS. One hour. MR. HOLCOMB.

CLASS CONFERENCE, EUROPEAN DIPLOMACY. One hour. MR. DEAN.

LATIN, FRENCH, GERMAN, AND SPANISH. Special.

SPECIAL LECTURES, CLASS DISCUSSIONS AND CONFERENCE, five hours.

The class-room work for each year will occupy about ten hours—two hours every week day except Saturday.

* N. D. A. 1896.

COURSES OF INSTRUCTION.

LAW SECTION.—Leading to the degree of Master of Laws.
One year.

1. REGULAR COURSE.

Constitutional Law of the United States.
Conflict of Laws.
International Law.
Roman Law.
Transportation and Interstate Commerce Law.
Comparative Politics.

2. ELECTIVE COURSE.

Comparative Constitutional Law.
Administrative Law.
Colonial Law.
Common Law Pleading.
Equity Pleading and Practice.
Testamentary Practice and Pleading.
Legal Ethics and the Preparation, Trial, and Argument
of Cases.
Moot Court Work.

3. CONFERENCES FOR REVIEW AND EXAMINATION.

Constitutional Law.
Conflict of Laws.
International Law.
Roman Law.
Transportation and Interstate Commerce Law.
Comparative Politics.

NOTE.—Students in this course may take the Moot Court work
and other courses in the Law School without extra charge.

LAW SECTION.—Leading to the degree of Doctor of Civil
Law. Three years.

1. REGULAR COURSE, FIRST YEAR.

Constitutional Law of the United States.
Comparative Constitutional Law.

Conflict of Laws.
International Law.
Roman Law.
Transportation and Interstate Commerce Law.
Comparative Politics.
Political Geography.
Colonial Law.
Latin, and French, German, or Spanish (special).

2. ELECTIVE COURSE.

History of Diplomacy of the United States.
History of Treaties to which the United States has
been a party.
Administrative Law.
Statistics and Social Economics.

3. CONFERENCES FOR REVIEW AND EXAMINATION.

Constitutional Law of the United States.
Conflict of Laws.
International Law.
Roman Law.
Transportation and Interstate Commerce Law.
Comparative Politics and Political Geography.

4. REGULAR COURSE, SECOND YEAR.

Comparative Politics.
Comparative Jurisprudence.
Laws of India, Egypt, Palestine, and Greece.
Roman Law to and including the time of Justinian.
General View of the Law in Europe during the
Middle Ages.
The extension of the Roman Law into some of the
Modern States.
Common Law of England; its history and extension
into some of the Modern States.
Jurisprudence of England and her Colonies; France,
Germany, Austro-Hungary, Italy, and Spain.
International Law.
Interstate Commerce Law.
Latin, and French, German, or Spanish (special).

5. ELECTIVE COURSE.

Practice of Diplomacy of the United States.
International Arbitration.
History of European Diplomacy and Treaties.
International Trade.
Finance.

6. CONFERENCES FOR REVIEW AND EXAMINATION.

Comparative Politics.
Laws of Ancient Nations.
Roman Law.
Common Law of England.
Jurisprudence of France and Spain.
International Law.
Interstate Commerce Law.

7. THIRD YEAR.

Elective courses and review.
Preparation of Thesis.
(Attendance optional, and one-half tuition only is charged for this year.)

DIPLOMATIC SECTION.—Leading to the degree of Master of Diplomacy. Two years.

1. REGULAR COURSE, FIRST YEAR.

Comparative Politics.
Political Geography.
History of Diplomacy of the United States.
History of Treaties to which the United States has been a Party.
International Law.
Commercial Geography.
Statistics and Social Economics.
French, German, or Spanish (special).

2. ELECTIVE COURSE.

Constitutional Law of the United States.
Comparative Constitutional Law.
Conflict of Laws.
Administrative Law.
Colonial Law.

3. CONFERENCES FOR REVIEW AND EXAMINATION.

Comparative Politics and Political Geography.
History of Diplomacy of the United States.
History of Treaties to which the United States has
been a Party.
International Law.
Commercial Geography.
Statistics and Social Economies.

4. REGULAR COURSE, SECOND YEAR.

Comparative Politics.
Practice of Diplomacy of the United States.
Organization of the State Department.
Duties of Ambassadors, Ministers, and Consuls.
International Arbitration.
History of European Diplomacy and Treaties.
European Diplomats.
International Law.
International Trade and Commercial Geography.
Finance.
French, German, or Spanish—special.

5. ELECTIVE COURSE.

Laws of Ancient Nations.
Common Law of England.
Course in Comparative Jurisprudence.

6. CONFERENCES FOR REVIEW AND EXAMINATION.

Comparative Politics.
History of Diplomacy of the United States.
Organization of the State Department.
Duties of Ambassadors, Ministers, and Consuls.
International Arbitration.
History of European Diplomacy and Treaties.
International Law.
International Trade and Commercial Geography.
Finance.

METHOD OF INSTRUCTION.

Professors conduct the study of the subject to which they are assigned by lectures, required courses of reading, and class discussions and conferences. Where a subject is divided into different branches or subdivisions, special lecturers are introduced who are specially qualified to speak upon the subject assigned.

All subjects are studied historically and comparatively and with a view to arriving at the present conditions and state of the law.

Class discussions and conferences follow each lecture, and students are encouraged to make original research and report their work to the class.

COMPARATIVE JURISPRUDENCE. This course begins with the study of the laws of primitive people, the laws of India, Egypt, Palestine, and Greece. Following this is a study of the Roman Law as derived from Greece and developed in Rome itself, down to the time of Justinian; then a general view of the law in Europe during the Middle Ages and tracing the Roman Law to the modern nations in which it now prevails. The rise of the Common Law and its extension to the nations in which it prevails are carefully considered, and then the jurisprudence of the great modern States is studied, giving to each a special lecture course, with class discussions. The relations of England to her colonial empire, and the federal system existing in Canada receive special attention. All statutory laws which have a bearing upon the exercise of national power and which affect the relations of nations with each other, as well as the fundamental law, are studied in each course.

This subject is under the general supervision of the Dean, and lecturers are appointed upon the jurisprudence of each nation.

COMPARATIVE CONSTITUTIONAL LAW. This subject is studied by first considering in a thorough and comprehensive manner the subjects and the scope of the Constitution of the United States, next taking the constitutions of other nations, studying their sources and subjects, comparing their provisions in the light of judicial interpretation by the highest courts of the country with the Constitution of the United States as construed

by the Supreme Court of the United States, giving the student a thorough knowledge of the statement of constitutional law in various countries, the scope of each, the subjects treated, the judicial construction, and the points in which our Constitution differs from that of other nations.

INTERNATIONAL LAW. This subject is studied with reference to its sources, its sanctions, its present condition, and the lines and scope of its probable development.

HISTORY OF DIPLOMACY AND TREATIES OF THE UNITED STATES. The course of lectures on American Diplomacy embraces the duties of ambassadors and ministers, duties of consuls, treaties, their method of negotiation, various forms of, attitude of Congress, rulings of Supreme Court, and historical sketch of most important American treaties; arbitration, principles of, organization and method of procedure; and the Monroe doctrine.

HISTORY OF EUROPEAN DIPLOMACY AND TREATIES. Approaching diplomacy not merely as the science of the relations of sovereign States and the art of conducting negotiations between them, but primarily as the actual transaction of international business, the course of instruction aims to show what European diplomacy really is by the examination of its history. As all important international transactions are summed up and embodied in definite treaties and conventions, the subject can be most profitably discussed by an analysis of these documents, supplemented by an account of the persons, interests, events, forms, ceremonies, and negotiations that have contributed to their development. By this method it is hoped that it may be possible not only to derive inductively the principles of diplomacy as an art and as a science, but also to present an exposition of the present international relations of Europe as determined by the great treaties, from the Congress of Westphalia to the Congress of Berlin, showing the existing affinities, antagonisms, and tendencies of the chief European powers.

COMPARATIVE POLITICS, POLITICAL GEOGRAPHY IN ITS RELATION TO POLITICAL HISTORY. The work in this department is designed to put the student in possession of the main results of political development, enabling him to follow the course of history, both in its geographical and in its political movement.

with special reference to the structure and influence of the States whose work has been worth most to the world.

FINANCE. This subject is treated broadly with reference to international relations in commerce and banking. It considers the nature and functions of money and credits and their international circulation; also the subject of Public Finance, including the sources of government revenues, bond issues, taxation, the disbursement of the revenues, and the organization of the Treasury Department.

INTERNATIONAL TRADE AND COMMERCIAL GEOGRAPHY. This course treats of the products of the United States which are the subjects of international trade: where like products are grown or manufactured, and the markets for the same, giving the general currents or geography of trade and commerce and showing how affected by treaties and legislation, and the services of diplomatic and consular agents of the United States.

TRANSPORTATION AND INTERSTATE COMMERCE LAW. This subject is treated historically, beginning with the public highway, the use of navigable waters, and the construction and operation of canals and railroads; observing the rights of the public; the relations of owners of railroads to the management and the public; theory and practical working of competition and combination; legislative control, and reviewing the Interstate Commerce Law and the decisions thereunder.

STATISTICS AND SOCIAL ECONOMICS. The aim is to teach the principles, theory, and practice of the statistical method, illustrating its use and abuse in presenting data relating to population, production, commerce, wages, prices, crime, etc. Under social economics the course deals with principles of social economics, elements of industrial society, systems of industry, evolution of manufactures, the factory system, the regulation of labor, strikes, arbitration, effects of machinery, prison labor, co-operation, savings institutions, labor legislation, labor organizations, socialism, etc., etc.

HISTORICAL.

At the annual meeting of the Board of Trustees of the University in June, 1898, an ordinance was adopted establishing,

as a department of the University, the "School of Comparative Jurisprudence and Diplomacy."

This school was opened with appropriate ceremonies at the University November 15, 1898. President McKinley and members of his Cabinet, with many other distinguished men in public life, were present. Addresses were delivered by B. L. Whitman, D. D., President of the University; Charles W. Needham, LL. D., Dean; Hon. John M. Harlan, LL. D., Associate Justice of the Supreme Court of the United States; Hon. David J. Brewer, LL. D., Associate Justice of the Supreme Court of the United States; Hon. Lyman J. Gage, Secretary of the Treasury; Sir Wilfrid Laurier, Premier of Canada, and Hon. John W. Foster, ex-Secretary of State.

On January 3, 1899, Law Lecture Hall was completed and dedicated. This building is located at 1429 H Street, adjoining University Hall; it is very complete, having three lecture-rooms, a large library, and ample office rooms, the entire building being devoted to the use of the Schools of Law.

OBJECTS.

This school is designed to afford a training in the subjects of higher legal knowledge, the political history of the world, the science and practice of diplomacy, and international law. Its courses are intended for lawyers, for students of jurisprudence and diplomacy, for persons who desire to fit themselves for the public, diplomatic, and consular service of the United States, and for those who desire a broad culture upon the larger questions of public life in order that they may better acquit themselves as journalists, legislators, and molders of public opinion upon the national and international issues of the day. To be an international lawyer or diplomatist one must, in addition to an education which makes one a scholar and lawyer, have special knowledge of the higher and broader subjects of the law and the intercourse between states and nations; to be influential in any public career a man in this day must have a knowledge of political history, the diplomatic relations which have existed between states and nations, the manner in which international controversies have been settled, the currents of international trade and commerce, the general principles of finance as held by civilized nations, and the modern methods

of settling international affairs. It is the special object and purpose of this school to furnish such instruction and opportunities for study at the national capital, where are to be found the archives containing the history of these subjects and the men who have been called to public life by reason of their special fitness to deal with these questions. From among these public men our professors and lecturers are chosen, and these archives and libraries are open to our students.

ADMISSION.

Applicants who have taken the degree of Bachelor of Laws in this or any other university or law school requiring three years of study will be admitted to the first year of the course as candidates for the degree of Master of Laws.

Applicants who have taken the degree of Bachelor of Arts, Bachelor of Science, Bachelor of Philosophy, or Bachelor of Laws in the Columbian University or any other university requiring an equal amount of study for the degree, and all others who have done work equivalent to that required for either of these degrees, and who pass a satisfactory examination before the Faculty of the School, are entitled to admission to the course as candidates for the degree of Master of Diplomacy or the degree of Doctor of Civil Law.

Satisfactory evidence of degrees taken or equivalent work done will be required in all cases.

Any person approved by the Dean may attend one or more courses of lectures in the school, have the benefit of the examinations, and receive a certificate for the work done.

LANGUAGES. A knowledge of Latin is regarded as essential in both of the law courses to enable students to properly pursue the history of the law. In addition to Latin, one of the modern languages, either French, German, or Spanish, will be required of applicants for the degree of Doctor of Civil Law, and a knowledge of either French, German, or Spanish will be required of those taking the degree of Master of Diplomacy. Students who have not received sufficient instruction in the languages required may take the same during their course, in the Department of Languages of the University. A special tuition is charged for each language taught.

ORATORY.

There are classes in oratory under the charge of Professor Channing Ridd. The purpose of this course is to qualify the student to express his knowledge and communicate his ideas in a convincing, persuasive, and effective manner. The course includes voice culture, chest cultivation, deep breathing, gesticulation, self control, extemporaneous speaking, argumentation, debating, and brief drawing. The aims are to culture the voice and make it rich, powerful, and flexible; making the bodily movements and the expression of thought and emotion, and training the mind to quick, clear, and logical thinking.

DEGREES AND THESES.

The degree of Master of Laws is conferred upon students taking the prescribed course and passing the required examinations.

The degrees of Master of Diplomacy and Doctor of Civil Law are conferred upon students who take the courses prescribed therefor, pass the required examinations, and submit satisfactory and creditable theses.

Theses are required of all students who are candidates for the degrees of Master of Diplomacy and Doctor of Civil Law upon subjects selected by the student and approved by the faculty. The thesis must represent independent thinking and research, and must not be a mere essay or compilation of facts. It must consist in the reasoned presentation of some distinct proposition—not a mere common place of knowledge—and adapted to illustrate the writer's familiarity with some field of inquiry, his comprehension of the subject chosen, his acquaintance with the sources of information relating to the theme, his power of clear and coherent statement, his capacity for logical arrangement of ideas, and his ability to establish by proof the position he defends. The value of the student's effort will be judged by its exhibition of the qualities above mentioned, rather than by its length; but the treatment should be sufficiently extended to furnish evidence of serious investigation and sustained thinking. Clearness and correctness of style are essential, but mere ornament is superfluous. An unadorned outline of the argument and the exact citation of authorities, with precise refer-

ences, are expected. The thesis must be prepared and printed at the expense of the student, as may be required by the faculty, and shall become the property of, and remain, with the school.

The standing of the student in all the courses, the regularity of his attendance, and his character and legal attainments will determine his right to the degree.

EXAMINATIONS.

Written examinations are held at the conclusion of each course of study, and a record is kept of the standing of the students in class conference work.

PRIZE.

A prize, offered by the Edward Thompson Company, of a set of the *Encyclopædia of Law*, first or second edition, or a set of the *Encyclopædia of Pleading and Practice*, is awarded to the student in this school who shall write the best essay on some legal subject, to be assigned by the Faculty.

FEES.

The tuition fee is one hundred dollars for each year, payable in advance, monthly or quarterly, at the option of the student. For the third year in the course for the degree of D. C. L. one-half tuition will be charged.

The tuition fee for the course in Oratory is fifteen dollars.

Printed synopses and publications issued in connection with the work are furnished to students at cost.

Students proposing to withdraw from the School of Comparative Jurisprudence and Diplomacy will inform the Registrar to that effect. In the absence of such notification no claims for exemption from fees will be allowed.

Students taking special courses only are charged fifteen dollars for each subject.

Regular students taking the languages are charged an extra fee of twenty dollars for each language taken.

The fee for diploma is ten dollars, and a library fee of two dollars per year is charged.

SCHOOL OF JURISPRUDENCE AND DIPLOMACY. 193

NOTICE.—College Courses.

Regular students in the School of Comparative Jurisprudence and Diplomacy will be admitted without additional fee, except matriculation and laboratory fees, to courses in the College aggregating not more than six hours a week, provided such courses shall not be counted toward any degree.

LAW LIBRARY AND READING ROOM.

A well-equipped working library, comprising 4,000 volumes, is open to the students in Law Lecture Hall from 9 a. m. to 10 p. m. Competent librarians are in charge, and will give students assistance in looking up subjects and in the use of books.

The library contains the standard text-books, the West Reporter System of Federal and State decisions complete, State Reports, the English Common Law and Chancery Reports, Encyclopedias of Law, Digests, reference books, and current law publications.

Adjoining the Library is a conversation room for students, affording opportunity for consultation.

In addition to these facilities, the students have free access to the great Congressional Library and other public libraries in the city.

Prize Award, 1901.

Edward Thompson Company Prize. . . Charles Drake Westcott

For further information and application blanks for admission, address the

SECRETARY OF THE SCHOOLS OF LAW.

1420 H Street, Washington, D. C.

STUDENTS OF THE SCHOOL OF COMPARATIVE
JURISPRUDENCE AND DIPLOMACY.*Candidates for the Doctorate in Civil Law.*

Name.	State.	Address.
Abreu, José Celerino	P. I . . .	War Department. A. B., Ateneo Municipal College, Manila, P. I. LL. M., Columbian University.
Bailey, Mrs. Emma Reba	Ga. . . .	The Elsmere. LL. B., LL. M., Washington Col- lege of Law.
Bingham, Goudry W.	Ala. . . .	802 11th Street. LL. B., Georgetown University. LL. M., Columbian University.
Briesen, Fritz von.	N. Y. . .	918 F Street. A. B., Harvard University. LL. B., New York University. LL. M., Columbian University.
Butler, Timothy John.	Kans. . .	905 K Street. LL. B., LL. M., Columbian Univer- sity.
Gunderson, Henry A.	Wis. . . .	1110 13th Street. LL. B., Columbian University.
Hawley, Everett Merrill	Kans. . .	Civil Service Com. LL. M., Columbian University.
Johnson, Adolph E. L.	Minn. . .	1234 I Street. LL. B., University of Minnesota. LL. M., Columbian University.
Johnson, Olie L.	Wis. . . .	905 K Street. LL. B., University of Wisconsin. LL. M., Columbian University.
Kent, Alexander William.	D. C. . .	930 O Street.
Kline, Aubrey J.	Va. . . .	1708 16th Street. LL. B., LL. M., Columbian Univer- sity.
McClure, William E.	Wash. . .	432 Boylston Ave. A. B., University of Oregon. LL. B., LL. M., Columbian Univer- sity.

SCHOOL OF JURISPRUDENCE AND DIPLOMACY. 195

Name.	State.	Address.
Meade, Knighton Tupper	Penn.	1604 Vermont Ave.
A. M., Allegheny College.		
LL. M., Columbia University.		
Quaintance, Hadley Winfield	Ill.	Census Office.
A. B., University of Nebraska.		
M. A., University of Illinois.		
LL. B., Northern Illinois College.		
LL. M., Columbia University.		
Rudd, Channing	D. C.	1305 R. I. Avenue.
LL. B., Kansas City School of Law.		
LL. M., Columbia University.		
Stuart, Albert Rhett	Md.	
B. A., M. A., LL. B., LL. M., Columbian University.		
Tharin, Frank	S. C.	704 F Street.
LL. B., LL. M., Columbian University.		

Candidates for the Degree of Master of Diplomacy.

Name.	State.	Address.
Able, Robert Felder	S. C.	911 M Street.
A. B., Leesville College, S. C.		
LL. B., LL. M., D. C. L., Columbian University.		
Boyd, Leroy Stafford	Ia.	312 C Street.
B. S., M. S., Ansonia State College.		
LL. B., Iowa University.		
D. C. L., Columbian University.		
Greacen, Miss Clare	Mich.	1616 19th Street.
A. M., LL. B., Howard Law School.		
McHarg, Ormsby	N. D.	1534 22d Street.
LL. B., University of Michigan.		
LL. M., D. C. L., Columbian University.		
Nakatsuka, Yeljiro	Japan.	619 F Street.
LL. M., Columbian University.		
Towson, Richard M.	Va.	1309 22d Street.
LL. B., LL. M., D. C. L., Columbian University.		
Winthrop, Robert M.	Mass.	1708 H Street.
A. B., Harvard University.		
Wyman, Bayard	Mich.	1013 I Street.
LL. B., University of Michigan.		
LL. M., D. C. L., Columbian University.		

Candidates for the Degree of Master of Laws.

<i>Name.</i>	<i>State.</i>	<i>Address.</i>
Abbe, William	D. C.	2017 I Street. A. B., J. L. B.
Austin, William L.	Miss.	1000 N Street. Ph. B., LL. B., University of Mississippi.
Calderon, Alfred Alvarez	Pern.	1750 Mass. Avenue. LL. B., St. Marcos University, Lima, Peru.
Cheever, Alfred R.	D. C.	210 E Street, N. E. LL. B., Natronge University.
Conwell, Lewis Colfax	Iowa	Office Auditor P. O. D. LL. B., Grinnell University.
Cullen, Orlan Clyde	Minn.	201 E. Capitol Street. C. L., St. Peter College.
Dreher, Francis P.	Mich.	1017 Connecticut Ave. LL. B., University of Notre Dame.
Dutton, Edwin Carpenter.	Md.	470 Louisiana Avenue. LL. B., Washington College of Law.
Goldberg, Louis.	N. Y.	1212 K Street. LL. B., Columbia University.
Hench, John K.	Penn.	139 F Street, N. E. LL. B., Columbia University.
Herrick, Samuel	Penn.	2126 R Street. LL. B., Columbia University.
Holloway, William Hinton ...	N. C.	1638 16th Street. LL. B., Columbia University.
Loughran, Patrick Henry.	N. Y.	45 9th Street, S. E. LL. B., Georgetown University.
McLanahan, George Xavier.	N. Y.	1401 21st Street. A. B., Yale University. LL. B., Harvard University.
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Phares, David Solomon.	Ind.	1231 11th Street. LL. B., Indiana's College of Law.
Plant, Arthur George	D. C.	918 M Street. LL. B., Columbia University.

SCHOOL OF JURISPRUDENCE AND DIPLOMACY. 197

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Samuels, Henry Floyd	Idaho	210 N. J. Avenue.
Smith, Charles Edwin	Ind.	727 20th Street. B. S., L. L. B., <i>Cornell University</i>
Stephens, Robert Allan	Ill.	Winder Building. L. L. B., <i>Cornell University</i>
Talbot, James David	Ill.	1016 15th Street. L. L. B., <i>Cornell University</i>
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Su, Yu-tsun	China	Chinese Legation.
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Tull, Jesse W.	Ill.	223 7th Street, N. E.
Webb, Arthur L.	Texas	1217 K Street.

Recapitulation.

Candidates for the Doctorate in Civil Law. . .	17
Candidates for the degree of Master of Diplo- macy	8
Candidates for the degree of Master of Laws .	25
Special students.	14
Total.	64

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Intern.

JOSEPH ROGERS.

Externs.

ALEXANDER T. NELSON, EDWARD Y. GILCHRIST.

LECTURES.—FIRST YEAR, 1902-1903.
BEFORE AND AFTER CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
12-3	Practical Anatomy	Practical Anatomy	Practical Anatomy	Practical Anatomy	Practical Anatomy	Practical Anatomy
4-6		Chemistry Laboratory	Pharmacy			
BEFORE CHRISTMAS.						
8-9		Chemistry Lower Room		Chemistry Lower Room		Chemistry Lower Room
9-10		Anatomy	Material Medical and Therapeutics	Anatomy		Anatomy
11-12	Physiology	Chemistry Laboratory	Practical Anatomy	Practical Anatomy	Physiology	Material Medical and Therapeutics
1-2	Practical Anatomy				Practical Anatomy	Pharmacy
AFTER CHRISTMAS.						
3-6		Chemistry				Chemistry Lower Room
6-8		Anatomy	Material Medical and Therapeutics		Material Medical and Therapeutics	Anatomy
7-8	Material Medical and Therapeutics		Physiology	Practical Anatomy	Physiology	Practical Anatomy
8-9	Physiology	Chemistry Laboratory	Practical Anatomy		Pharmacy	
9-10	Practical Anatomy	Practical Anatomy			Practical Anatomy	

LECTURES.—SECOND YEAR, 1902-1903.
BEFORE AND AFTER CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
12-3	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.	Practical Anatomy.
3-4	Histology.			Chemistry Laboratory.	Histology.	
BEFORE CHRISTMAS.						
1-2	Histology Laboratory.	Chemistry.		Chemistry.	Histology Laboratory.	Chemistry.
2-3	Histology Laboratory.	Anatomy.	Material Media and Therapeutics.	Anatomy.	Histology Laboratory.	Anatomy.
3-4	Physiology.	Practical Anatomy.	Material Media out 8 to 12:15.	Chemistry Laboratory.	Physiology.	Material Media and Therapeutics.
5-6	Practical Anatomy.		Practical Anatomy.	Chemistry Laboratory.	Practical Anatomy.	Pharmacy.
AFTER CHRISTMAS.						
1-2	Histology Laboratory.	Chemistry.		Histology Laboratory.	Practical Anatomy.	Chemistry.
2-3	Histology Laboratory.	Anatomy.	Material Media and Therapeutics.	Histology Laboratory.	Material Media and Therapeutics.	Anatomy.
3-4	Material Media and Therapeutics.	Practical Anatomy.	Physiology.		Physiology.	Chemistry Laboratory.
5-6	Physiology.		Practical Anatomy.		Pharmacy.	

LECTURES.—THIRD YEAR, 1902-1903.
BEFORE AND AFTER CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8-9	Obstetrics and Laryngology	Surgical Diseases		Otolaryngology and Laryngology		Surgical Diseases
9-10		Ophthalmology		Surgical Diseases		
10-11	Gastrology		Gastrology		Gastrology	Gen. Pathology and Venereal
11-12	Dentistry	Nervous Diseases	Diseases of Children and Surgery		Nervous Diseases	Diseases of Children and Ophthalmology
1-2	Ophthalmology	Medical Diseases		Medical Diseases		Medical Diseases
2-3	Medical Pathology	Surgical Diseases	Medical Diseases	Ophthalmology	Medical Diseases	Surgical Diseases
3-4	Surgery	Surgery	Surgery	Surgical Diseases	Surgery	
4-5	Mental Diseases					
5-6		Medical Clinics		Medical Clinics		Medical Clinics
7-8				Surgical Clinics		Surgical Clinics

LECTURES.—FOURTH YEAR, 1902-1903.
BEFORE AND AFTER CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
12-1	Nervous Diseases	Surgical Diseases		Nervous Diseases of eye and Ears, nose and Throat		Surgical Diseases
1-2	Ophthalmology and Otolaryngology			Surgical Diseases	Ophthalmic surgery	Ophthalmology and Otolaryngology
2-3	Gynecology	Gonorrhea	Gynecology	Gynecology	Gynecology	Gynecology and Obstetrics
3-4	Dermatology	Nervous Diseases	Diseases of Children and Ophthalmology		Nervous Diseases	Diseases of Children and Ophthalmology
4-5	Ophthalmology	Medical Diseases		Medical Diseases		Medical Diseases
5-6	Medical Dispensary	Medical Dispensary	Medical Diseases	Ophthalmology	Medical Diseases	Surgical Diseases
6-7	Surgery	Surgery	Surgery	Surgical Diseases	Surgical Diseases	Surgical Diseases
8-9	Mental Diseases					
10-11		Medical Clinics	Children's Diseases	Medical Clinics		Medical Clinics
11-12				Surgical Clinics		

Special Surgical Clinic at Garfield at 10 a. m.

Special Gynecology at Emergency at 1 p. m.

LECTURES.—FOURTH YEAR, 1902-1903. BEFORE CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
4-5	SURGERY		SURGERY		SURGERY	
6-8	OBSTETRICS		OBSTETRICS		OBSTETRICS	
7-8	OBSTETRICS OUT-DOOR Nov. 4 & 5, Nov. 11	Practice Nov. 4 & 5, Nov. 11	OBSTETRICS Lecture Nov. 11	Practice	OBSTETRICS Lecture Nov. 11	
8-9		OBSTETRICS Nov. 11 Lecture Nov. 11	OBSTETRICS Lecture Nov. 11	OBSTETRICS Lecture Nov. 11	OBSTETRICS Lecture Nov. 11	OBSTETRICS Lecture Nov. 11

AFTER CHRISTMAS.

HOURS	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
4-5	SURGERY		4-5: OBSTETRICS Nov. 11 Lecture Nov. 11		SURGERY	
6-8	OBSTETRICS		OBSTETRICS Lecture Nov. 11		OBSTETRICS	
7-8		Practice	Practice	Practice	Practice	Practice

DEPARTMENTS OF INSTRUCTION.

The system of instruction adopted by the Medical School of this University includes lectures on Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics, Surgery, Obstetrics, the Theory and Practice of Medicine, Hygiene, Bacteriology, Otolaryngology, Gynecology, Dermatology, Ophthalmology, Mental Diseases, Medical Jurisprudence, Nervous Diseases, Pediatrics, Minor Surgery, Histology, Pathological Histology, Orthopedic Surgery, and Surgical Pathology.

Laboratory instruction is given in Chemistry, Histology, and Pathological Histology, Bacteriology, Physiology, Pharmacy, and Clinical Medicine.

The eighty-first course of lectures begins on Wednesday, October 1, 1902.

The Introductory Lecture of the Course will be delivered by Professor A. F. A. King, on the 1st of October, and the regular didactic lectures will continue throughout the session, beginning at 5.30 p. m. of each week day. The laboratories and dissecting room are open at stated hours day and evening. Practical clinics during the day.

NEW BUILDINGS FOR MEDICAL SCHOOL AND HOSPITAL.

Extensive additions and improvements are in progress for the Medical School. A new hospital, 60 x 80 feet, four stories in height, will be ready in October. This will be fire-proof in construction, with the most modern private and public wards, with private baths and all modern improvements for ventilation, heating, etc. The public as well as private wards will have delightful sun parlors, and every effort will be made to make the hospital home-like.

The new building for the Medical School will be 50 x 144 feet, five stories in height, with four large lecture halls for 200 to 350 students each, large laboratories for chemistry, pharmacy, histology, physiology, bacteriology, pathology, and anatomy; recitation-rooms, professors' rooms, museum and reading-room, and study-rooms. Every facility will be given, therefore, for the

best of theoretical and practical work. These buildings are in the course of construction and will be ready for occupancy by the beginning of the school year, in the fall of 1902.

SURGERY.

PROFESSOR THOMPSON.

Surgeon to the University Hospital, the Children's Hospital, and to the Garfield and General Hospitals.

The course embraces Didactic Lectures upon the Principles and Practice of Surgery, and, as far as practicable, Clinical Instruction at the School.

As Professor Thompson is the attending Surgeon of the University, Children's and Garfield Hospitals, students are offered the opportunity for Clinical Instruction in these Institutions.

Every effort is made to teach Surgery in accordance with the latest developments of scientific research. At the School, operations are performed upon the cadaver, and the uses of all important surgical instruments and appliances are demonstrated in the same manner.

MINOR SURGERY. - Practical class instruction is given by Professor McArdle and his assistants in the application of splints, dressings, etc., for the various surgical diseases and injuries.

THEORY AND PRACTICE OF MEDICINE.

PROFESSOR JOHNSTON.*

Physician to the University Hospital, and Consulting Physician to the Children's Hospital, to the Pennsylvania Hospital, and to the General Dispensary and Emergency Hospital.

The student is urged to pay special attention to the course in Histology during the second year, as this is essential to a proper understanding of the internal diseases of the human body. The courses in Pathology and Bacteriology should also receive the closest study, for without a clear knowledge of these subjects no satisfactory advance can be made.

*Deceased.

The method of instruction employed in this subject is as follows:

1. Lectures at the School, with weekly recitations.
2. Clinical lectures at the University Hospital, with practical instruction in the art of diagnosis and in the methods of taking and recording histories of medical cases.
3. Laboratory instruction in the use of instruments of research for the clinical study of the sputum, blood, feces, etc.
4. A course of lectures, with class instruction in physical diagnosis.

OBSTETRICS AND GYNECOLOGY.

PROFESSOR KING.

Obstetrics is given by the University Professor, and of the Obstetric Professor at the Columbia Hospital, etc.

This course comprises a series of lectures on the Science and Art of Midwifery, and on the Diseases of Women. The chief purpose of the lecturer is to arrange, simplify, and explain the matters studied in the text-books, so as to render them more easily intelligible, and to indicate their relative importance. The lectures are illustrated by diagrams, models, manikins, natural preparations, and instruments. The Demonstrator of Obstetrics, Dr. Edward E. Morse, of the Columbia Hospital, demonstrates obstetric operations and allows students to perform these operations upon the manikin, under his direction. This course is limited to fourth-year students, and all are required to take it before becoming candidates for graduation.

In the Department of Gynecology the various instruments and appliances used in treating the diseases of women are exhibited and their uses fully explained. Clinical instruction in Surgical Gynecology will be given by Prof. H. L. F. Johnson at the Hospitals, where students will witness the various surgical operations required in gynecological cases.

Clinical Instruction in Obstetrics will be given by Dr. Cabell at the Columbia Hospital.

ANATOMY.

PROFESSOR SMITH.

Orthopaedic Surgeon to the University Hospital and to the Washington
Hospital for Children.

This course of lectures is arranged with the view of rendering the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

Sufficient knowledge of the anatomical structure of the human body may be acquired during the two courses of lectures, which each student attends, to qualify him for the practice of medicine, if at the same time he does his duty in the dissecting room.

The lectures are illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The sctop-ticon is also employed constantly to present photographic views of many regions of the body.

Special attention is given during the course to the surgical and medical relations of human anatomy, which are of so great importance in the practice of the medical profession.

Public oral examinations are conducted by the lecturer from time to time.

The prosectors prepare the subject for the lecturer.

The Demonstrator of Anatomy and his assistants give their personal attention to the students in the dissecting-room.

PRACTICAL ANATOMY.—Anatomical material is abundantly supplied. The dissecting room of the School is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. It is under the direction of the Professor of Anatomy. The Demonstrator of Anatomy and his assistants are present at stated hours to give personal attention to the students and properly to instruct them in their dissections.

CHEMISTRY AND TOXICOLOGY.

PROFESSOR DE SCHWEINITZ.

Professor of Chemistry, University of Pennsylvania, and Director of the
Department of Chemistry, University of Pennsylvania.

This course embraces:

A short discussion of the principles of physics in their relation to chemistry, the principles of chemical philosophy, the laws of chemical combination and affinity.

The elements, metals and non-metals, their methods of isolation, properties, compounds, and reactions, are studied.

Due attention is given to organic chemistry, especially those compounds that are of use in medicine.

Laboratory instruction, in charge of the Professor of Chemistry and associate, Dr. E. G. Seibert, is given in the general methods of qualitative and quantitative analysis, volumetric analysis, toxicology, mine analysis, water analysis, and special clinical analyses.

Opportunity for advanced work in biochemistry is afforded.

PHYSIOLOGY.

PROFESSOR CARR.

Associate Surgeon to the University Hospital and Surgeon to the Central
Dispensary and Emergency Hospital.

This subject is fully presented in a graded course of lectures covering the first two years.

The lectures are well illustrated by diagrams, models, and anatomical specimens, so as to make them clear in every detail.

A new physiological laboratory will be ready for use during the session of 1902-1903, where students will be required to do practical work during the first and second years. This work will be in sections, and opportunity will also be given to advanced students for original research.

MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR REEVE.

Assistant to Professor, Lectureship, and one of the Visiting Physicians to the French Dispensary.

Instruction in this department extends through the first two years, and embraces:

1. The study of crude drugs and their preparations, and the art of prescribing.
2. The physiological action of drugs in the human system.

3. The practical application of drugs and other therapeutical agencies to the prevention and cure of disease and the relief of suffering, together with their antitoxal relations to poisons.

The subject is taught by means of lectures, recitations, and blackboard illustrations, and is simplified and made practical to as great a degree as is compatible with a sufficiently thorough understanding of its principles.

In connection with this chair is a pharmaceutical laboratory, under the immediate supervision of Dr. E. P. Morgan, well equipped with modern appliances, in which are taught the making of typical preparations of the Pharmacopœia, prescription writing, and the compounding of prescriptions.

DERMATOLOGY.

PROFESSOR YARROW.

Professor of the two Lectureship, Dermatology, and one of the Visiting Physicians to the French Dispensary and the University Hospital.

Professor Yarrow gives lectures on this subject, illustrated by diagrams, models, photographic illustrations of disease from life, and also the exhibition of cases. In connection with the course clinical instruction is given at the Central Dispensary and Emergency Hospital and the University Hospital by Dr. Carmichael, where an abundance of material affords excellent clinical advantages.

PEDIATRICS.

PROFESSOR ACKER,

Associate Physician to the University Hospital and Physiotherapist, the Children's Hospital.

The Professor lectures upon diseases of infants and children and the importance of their proper management by diet and hygiene.

GYNECOLOGY.

PROFESSOR JOHNSON,

In Charge of the Department of Gynecology and Maternity, George Peck Hospital and Emergency Hospital, Assistant Gynecologist, University Hospital, Consulting Physician to Washington Clinic and Washington Asylum Hospital.

The Professor gives his lectures on the diseases peculiar to women, with special clinical instruction in physical diagnosis at the Emergency Hospital from October to May. Students are required to attend. Operative work will be demonstrated as frequently as possible. The Professor has organized in connection with his service an outdoor maternity clinic, which is open to students.

MINOR SURGERY.

PROFESSOR MCARDLE,

Professor of the University Hospital.

The course in Minor Surgery consists of lectures and practical demonstrations concerning bandaging, preparation of materials used in aseptic and antiseptic dressings, preparations for aseptic or antiseptic operations, strapping, vaccination, and other minor surgical procedures. Under the supervision of assistants, the students themselves apply the various splints, bandages, surgical dressings, etc.

OPHTHALMOLOGY.

PROFESSOR BUTLER.

Ophthalmologist at Grady's Hospital, in charge of the Lutheran Eye and Ear Infirmary, and Assistant Ophthalmologist, University Hospital.

The Professor gives a didactic course on this subject, together with clinical instruction at the Lutheran Eye and Ear Infirmary.

LARYNGOLOGY AND OTOTOLOGY.

PROFESSOR RICHARDSON.

Laryngologist to the University, the Providence, and the Episcopal Eye, Throat, and Ear Hospitals.

This course comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and also the ear.

Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

NERVOUS DISEASES.

PROFESSOR TOMPKINS.

In charge of the Department of Nervous Diseases at the Cottage Dispensary and Emergency Hospital. Assistant in Nervous Diseases, University Hospital.

Lectures and clinics are given upon the more common and important of these affections.

SURGICAL PATHOLOGY.

PROFESSOR VAN RENSSLAER.

Associate Surgeon, University Hospital, and one of the Surgeons to the Grady and Emergency Hospitals.

The Professor gives a series of lectures upon the Pathological Anatomy of Surgical Diseases and Injuries and upon Surgical Bacteriology, illustrated by means of charts and photographs.

ORTHOPEDIC SURGERY.

PROFESSOR SHANES.

Orthopaedic Surgeon, H. 11-1131.

This course embraces didactic lectures on the Pathology, Etiology, Course and Termination of all Chronic Joint Diseases, and, as far as practicable, with clinical instruction on treatment of the same according to the most modern orthopedic methods.

Special attention is given to the correction of all deformities, either acquired or congenital, by both mechanical and operative measures. There are afforded also practical illustrations as to applications of all the most modern orthopedic appliances.

Practical instruction is given in the application and use of plaster of Paris in the treatment of Pott's Disease, Scoliosis, Club foot, etc.

HYGIENE.

PROFESSOR PHILLIPS.

Instructor of the Section of Hygiene, U. S. Weather Bureau.

The course in Hygiene is directed to teaching the relations of habits and surroundings to health, and the approved methods for making both habits and surroundings contribute to the preservation of health and the prevention of disease; it comprises also the consideration of the laws of hygiene as applied to the individual and to the community.

BACTERIOLOGY AND PATHOLOGY.

PROFESSOR REED.

Pathologist of the University Hospital, Curator of the Army Medical Museum, and Professor of Comparative Sanitary Microscopy in the Army Medical School.

In this department the effort is made to give the student a practical knowledge, first, of the preparation of the various culture media, the principles of disinfection and sterilization, and the methods of cultivating, staining, and studying bacteria. Special attention is given to the pyogenic organisms and the bacilli of diphtheria and tuberculosis.

The latter half of the session is devoted to Pathology and the student is now prepared to appreciate the association of these organisms with certain definite lesions in the tissues. After the detailed study of inflammation the diseases of the various organs are taken up in succession as far as possible. For this purpose sections illustrating the various pathological conditions are carefully selected and given to the student to be stained, mounted, and studied under the immediate supervision of the instructor. These sections become thereafter the property of the student.

The course terminates with the microscopical study of the several varieties of tumors.

MENTAL DISEASES.

PROFESSOR RICHARDSON.

Superintendent of the Government Hospital for the Insane, St. Louis, Mo.

A series of lectures and clinics is given upon the subject of insanity in its varied forms.

CLINICAL MICROSCOPY.

DR. JAMES CARROLL.

This course embraces the study of fresh and stained preparations of human blood in normal and pathological conditions; the Widal test for typhoid fever; the developmental stages of the malarial parasites in the blood and in the mosquito; the common forms of intestinal parasites and the microscopical examination of the urine.

NORMAL HISTOLOGY.

PROFESSOR NICHOLS.

The course in Normal Histology is required of students in the second year, and extends throughout the entire session. The Histological Laboratory, open both day and evening, is amply equipped with microscopes, apparatus, and material for practi-

cal histological work and for purposes of instruction. A systematic presentation of the facts relating to cytology and the minute structure of the tissues and organs of the body is given by means of lectures, the study of microscopical specimens, and the projection microscope. Students are also given practical instruction in the manipulation and care of the microscope, in the preparation of specimens for microscopical examination, and in microscopical technique generally. Examinations are held at the close of the session.

MEDICAL JURISPRUDENCE.

W. C. WOODWARD, M. D.,

Heard, Officer of the District of Columbia.

This course deals with the relations of Physicians to matters under legal investigation. It covers as fully and practically as possible the more important subjects of forensic medicine. Students are taught to give expert testimony and how to conduct themselves as medical witnesses.

LABORATORY INSTRUCTION.

As already noted in the introduction, the *new building* will be completed by the fall of 1902. In this, well-equipped, modern laboratories will be provided for practical instruction in Anatomy, Physiology, Chemistry, Pharmacy, Normal Histology, Bacteriology, Pathological Histology, and Clinical Microscopy. These will all be large, well lighted, and well-ventilated rooms, with a complete outfit of apparatus for each student. The desks are provided with water, gas, and steam and every facility for the best of practical work. Great stress is laid upon laboratory work in all the subjects named.

The Pathological Museum is equipped with a large number of interesting and valuable specimens. Dr. L. W. Glazebrook, the Deputy Coroner of the District of Columbia, has been made Curator of the Museum, and from time to time adds valuable specimens to the collection.

CLINICAL INSTRUCTION.

Attendance upon Clinical Instruction in Medicine and Surgery during at least two years is required, and upon other clinics as indicated by the schedule. Records of attendance on these clinics will be kept and will duly affect the student's standing in his classes.

ADMISSION.

Candidates for matriculation are required to show that they are fitted, by previous education, for the study of medicine, and for this purpose they must either submit themselves to an examination or in lieu thereof present a satisfactory certificate of their attainments.

Should an examination be necessary, it will comprise the following subjects:

1. English composition.
2. Translation of easy Latin prose.
3. Elements of Algebra and Higher Arithmetic.
4. Elementary Physics.

Students conditioned or unable to undergo the examination in Latin or in Elementary Physics may obtain instruction on these subjects during the Freshman year, and on passing a satisfactory examination before the beginning of the second year will be regularly matriculated.

Dr. O. A. M. McKimkie, 1333 N Street, N. W., will give further information in regard to instruction in Latin, Physics, etc.

ADVANCED STANDING.

Students of other institutions who have attended one course of lectures in any regular medical school are placed upon the same footing with those who have attended one course in this School, and those who have attended two or three courses of lectures in any other regular college or colleges rank with those who have attended two or three courses in this institution, and the same privileges as regards examination are extended

to them; they are admitted respectively as second, third, or fourth year students after passing a satisfactory examination upon the subjects required of our own students during the first, second, and third years, as previously described.

GRADUATION.

Candidates for the degree of Doctor of Medicine must be of good moral character and at least twenty-one years of age; they must have studied medicine four years, and must have attended four courses of lectures, the subjects arranged as follows.

First Year.

Unless otherwise stated, lectures commence every week between hours 10 and 11 a. m.

Anatomy. — Three hours before, two hours after Christmas.

Physiology. — Two hours before, three hours after Christmas.

Chemistry. — Three hours before, two hours after Christmas; three hours' laboratory work, day and evening.

Materia Medica and Therapeutics. — Two hours before, three hours after Christmas; one hour laboratory work.

Practical Anatomy. — Dissection room open from 12 m. to 3 p. m., and from 7.30 to 11 p. m.

Examination at the end of the year upon the above-named subjects.

Second Year.

Anatomy. — Three hours before, two hours after Christmas.

Physiology. — Two hours before, three hours after Christmas.

Chemistry. — Three hours before, two hours after Christmas; four hours' laboratory work.

Materia Medica and Therapeutics. — Two hours before, three hours after Christmas.

Minor Surgery. — One hour, October 8 to December 10, in manikin-room.

Histology. — Laboratory, day and evening.

Practical Anatomy. — Dissection room open from 12 m. to 3 p. m., and from 7.30 to 11 p. m.

Examination at the end of this year upon the above-named subjects.

Third Year.

Surgery.—Three hours before, two hours after Christmas.

Medicine.—Two hours before, three after Christmas.

Obstetrics.—Three hours before, two hours after Christmas.

Dermatology.—One hour, from January 7 to March 10.

Ophthalmology.—One hour, from October 7 to December 9.

Bacteriology and Pathology.—Nine hours' laboratory work per week.

Surgical Pathology.—One hour, from October 11 to December 20.

Clinics, as per schedule.

Medical Jurisprudence.—One hour, October 9 to December 18.

Mental Diseases.—One hour, January to April.

Hygiene.—Three hours, January 6 to January 28.

Examination on the above-named subjects at the end of the year.

Fourth Year.

Surgery.—Three hours before, two hours after Christmas.

Medicine.—Two hours before, three hours after Christmas.

Clinics and laboratory instruction.

Obstetrics.—Three hours before, two hours after Christmas.

Gynecology.—One hour and clinics from October to May.

Nervous Diseases.—Three hours, from November 4 to November 26.

Pediatrics.—One hour, and clinics from January to April.

Otology and Laryngology.—Three hours, from October 13 to November 26.

Orthopedic Surgery.—Three hours, from October 7 to October 28.

Clinics, as per schedule.

Final examination at the close of the fourth year upon the above-named subjects.

The candidate must have dissected for at least two sessions, during each of which he shall be required to dissect two "parts" of a subject, and it is recommended that he dissect three parts. He must have attended also the required courses of clinical instruction in Medicine, Surgery, and Special Branches.

One month before the close of the session he shall enter his name with the Dean of the Faculty as a candidate for graduation.

tion, and at the end of the term present himself for examination. The examination is both written and oral. The examination for the degree is held at the end of the session in May.

Graduates of other accredited medical colleges must pass a satisfactory examination on the essential branches of medicine before receiving a diploma from this University.

Students who fail to pass the examinations in the spring may be allowed a reexamination in the following fall *only*.

The diploma is granted only at the Annual Commencement, and the degrees are conferred by the authority of The Columbian University, incorporated by act of the Congress of the United States of America.

THE UNIVERSITY HOSPITAL.

Clinical teaching is conducted in this new and enlarged hospital in conjunction with the didactic lectures in the various branches. The convenient location and the fact that the hospital is under the immediate control of the Medical Faculty offer unusual advantages to the students of this school.

GARFIELD HOSPITAL.—Clinical lectures are given regularly during the session by Professors Thompson and Van Reusselaer on Surgery, and by Professors Cook, Claytor, and Deale on Medicine, Carmichael on Dermatology, and Bulter on Ophthalmology. A great variety of medical and surgical diseases is to be seen in this institution, affording abundant material for clinical diagnosis and operative surgery.

CHILDREN'S HOSPITAL.—A weekly course of Surgical and Medical Clinics is given by Professors Thompson and Acker. An opportunity is here afforded for observing all the medical and surgical diseases, injuries, etc., to which children are liable. The Dispensary service of the Hospital is very large and instructive.

CENTRAL DISPENSARY AND EMERGENCY HOSPITAL.—Dr. H. L. E. Johnson, in charge of the department of diseases of women; Dr. Tompkins, in charge of nervous diseases; Dr. Shands on general medicine; Dr. Carmichael, in dermatology, and Dr. Stone, in genito-urinary and venereal diseases, conduct courses of instruction in their respective branches.

PROVIDENCE HOSPITAL.—Clinical Instruction, both medical and surgical, is given by the staff of this institution. Gynecological clinics by Dr. J. W. Boyce.

LUTHERAN EYE AND EAR INFIRMARY.—The diseases of the eye and ear in this hospital are demonstrated during the clinics of Professor Butler.

EPISCOPAL HOSPITAL.—Dr. Richardson shows cases of diseases of the nose, throat, and ear in the dispensary service of this hospital.

COLUMBIA HOSPITAL.—Clinics and gynecological operations by Dr. Boyce.

St. ELIZABETH'S.—Dr. A. B. Richardson, the superintendent, will give clinical instruction in mental diseases.

COLUMBIA HOSPITAL.—Dr. Cabell will give clinical instruction in obstetrics.

CLINICS, 1901-1902.

University Hospital.

Surgery. Dr. Thompson, Tuesdays; Drs. Van Rensselaer and Carr.

Medicine.—Dr. Johnston, Saturdays, at 4.30; Drs. Acker and Cook.

Dispensary Service.

Surgical Diseases.—Dr. Wellington, Tuesdays, Thursdays, and Saturdays, 1 to 2 p. m.

Medical Diseases.—Dr. Bardin, Tuesdays, Thursdays, and Saturdays, 2 to 3 p. m.

Gynecology.—Dr. H. L. E. Johnson and Dr. Boyce, Wednesdays and Fridays, 1 to 2 p. m.

Diseases of the Eye.—Dr. Shute, Mondays and Thursdays, 2 to 3 p. m.

Diseases of the Ear and Throat.—Dr. Richardson, Mondays and Thursdays, 1 to 2 p. m.

Diseases of the Skin.—Drs. Yarrow and Carmichael, Mondays, 2 to 3 p. m.

Diseases of Children and Orthopedic Surgery.—Drs. McArdle and Shands, Wednesdays and Saturdays, 2 to 3 p. m.

Nervous Diseases. — Drs. Tompkins and Ruffin, Tuesdays and Fridays, 2 to 3 p. m.

Genito-Urinary and Venereal Diseases. — Dr. Stone, Saturdays, 1 to 2 p. m.

At the Graceland Hospital.

Surgery. — Dr. Thompson, Sundays, at 10.30, November to April; Dr. Van Rensselaer, Sundays, at 10.30, October 1 to November 1.

Medicine. — Dr. Claylor, Tuesdays and Thursdays, at 4.15, October 1 to January 1; Dr. Cook, Tuesdays and Thursdays, at 4.15, January 1 to April 1.

Medical Dispensary Service. — Dr. Deale, Mondays, Wednesdays, and Fridays, at 2 p. m.

Surgical Dispensary Service. — Dr. Wellington, Tuesdays, Thursdays, and Saturdays, at 2 p. m.

Dermatology. — Dr. Carmichael, Saturdays, at 2 p. m.

At the Children's Hospital.

Children's Diseases. — Dr. Acker, Wednesdays, at 4 to p. m., January 1 to April 1.

Surgery. — Dr. Thompson, Tuesdays, at 10.30 a. m., October to April.

Medical Dispensary Service. — Dr. Leach, Tuesdays, Thursdays, and Saturdays, at 2 p. m.; Dr. Wellington, Mondays, Wednesdays, and Fridays, at 2 p. m.

Surgical Dispensary Service. — Dr. McArdle, Tuesdays, Thursdays, and Saturdays.

At the Central Dispensary and University Hospital.

Gynecology. — Dr. H. L. F. Johnson, Sundays, at 1 p. m., October to April (fourth year).

Orthopedic Surgery. — Dr. Shands, Fridays, at 1 p. m. (fourth year).

Nervous Diseases. — Dr. Tompkins, Mondays and Thursdays, at 12 noon (fourth year).

Surgery. — Dr. W. P. Carr, daily, at 2 p. m., and Thursdays, at 5.30 p. m., October to January 15; Dr. W. B. Jackson, clinical assistant.

Genito-urinary. — Dr. T. R. Stone, Tuesdays, 1 to 2 p. m. (fourth year).

Dermatology.—Dr. Carmichael, Tuesdays and Fridays, 1 to 2 p. m. third year.

At the University Dispensary.

Ophthalmology.—Dr. Butler, Tuesdays, at 1 p. m. (third year).

Episcopal, Lee, E. C., and T. J. J. Hospital.

Otology and Laryngology.—Dr. Richardson, Saturdays, at 1 p. m., November and December (fourth year).

At Providence Hospital and at Columbia Hospital, by Special Invitation.

Gynecology.—Dr. Boyce, Mondays and Thursdays (fourth year).

Obstetrical Demonstrations.—Dr. Cabell will superintend this work at the hospital, and notify fourth-year students when cases are ready.

At St. Lawrence.

Mental Diseases.—Dr. A. B. Richardson, Mondays, at 3 p. m., January 1 to April 1.

Clinics at the UNIVERSITY HOSPITAL will be given by members of the Faculty at hours to be named at the beginning of the course.

In addition, clinics will be given at the other hospitals of the city in accordance with schedule just given.

Cards giving exact dates and times of all clinical instruction are issued at the beginning of each year.

When the student presents himself for graduation his record must show that he has attended full courses in clinical instruction in the various branches required.

UNIVERSITY LECTURES.

Students of the Medical School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they may secure admission to other lectures, given in the Hall of the University, by applying to the Dean.

PRIZES.

At the end of the term a General Examination Prize of fifty dollars is awarded. It is given to the candidate for graduation who shall pass the best general examination.

The Faculty awards two additional prizes—one for proficiency in Clinical Medicine and one for proficiency in Clinical Surgery.

In addition to these, Professor H. C. Yarrow gives a prize for the best examination in Dermatology; Professor H. L. E. Johnson gives one for the best examination in Clinical Gynecology; Professor C. W. Richardson gives one for the best examination in Laryngology and Otology; Professor E. L. Tompkins gives one for the best examination in Nervous Diseases; Professor Acker gives one for the best examination in Pædiatrics, and Professor Butler one for the best examination in Ophthalmology.

Prize Awards, 1901.

The General Examination Prize of Fifty Dollars, awarded to T. S. D. Grasty, of Virginia.

First honorable mention, awarded to S. J. Morris, of Ohio.

Second honorable mention, awarded to W. T. Davis, of Kentucky.

Third honorable mention, awarded to P. L. Freeman, of Maryland.

The Faculty Prize in Clinical Medicine, awarded to W. B. Eastman, of Virginia.

The C. W. Richardson Prize in Laryngology and Otology, awarded to T. S. D. Grasty.

The E. L. Tompkins Prize in Nervous Diseases, awarded to T. S. D. Grasty.

The G. N. Acker Prize in Pædiatrics, awarded to T. S. D. Grasty.

The H. C. Yarrow Prize in Dermatology, awarded to H. M. Jewett.

The W. K. Butler Prize in Ophthalmology, awarded to S. J. Morris.

TEXT BOOKS AND WORKS OF REFERENCE.

- Anatomy.** *Grays on Anatomy* (translating Gray's Anatomy). HENRIE'S TEXT BOOK OF ANATOMY. HENRIE'S MANUAL OF ANATOMY. HAYES'S MANUAL OF ANATOMY. WOODWARD'S SURVEY OF MEDICAL EDUCATION. APPENDIX.
- Physiology.** RILEY'S, STEWART'S MANUAL. AUSTIN, LINDLEY & STODOLSKY'S PHYSIOLOGY.
- Chemistry.** RICHARDSON, RICHMOND, SUMNER, OR FARRAR'S CHEMISTRY. BOWMAN'S MEDICAL CHEMISTRY. WILKINSON'S CHEMISTRY. FARRAR'S FARRAR'S. RICHMOND'S ORGANIC CHEMISTRY.
- Materia Medica.** H. C. WOOD'S *Pharmacology*. NATHAN'S *Pharmacology*. PARRIS' *Pharmacology*.
- Surgery.** AMERICAN TEXT BOOK OF SURGERY. SURGERY BY AMERICAN VETERINARIANS. PARK'S SURGICAL PATHOLOGY AND PRACTICE. WOODWARD.
- Practice of Medicine.** OSLER, FARRAR, AMERICAN PRACTICE, "MAGNETIC MEDICINE." SARGENT RICHMOND. THE CLINICAL HISTORY. DIAGNOSIS. MEDICAL TREATMENT. CLINICAL DIAGNOSIS. SURGERY. RICHMOND. CLINICAL EXAMINATION OF THE BLOOD, CLINICAL.
- Obstetrics.** PARRIS, LINDLEY, OR PARRIS' OBSTETRICS. AMERICAN TEXT BOOK OF OBSTETRICS. SARGENT RICHMOND. SURGICAL OBSTETRICS. PARRIS' OBSTETRICS. A. F. A. KING'S MANUAL OF OBSTETRICS.
- Gynecology.** GARRARD'S *Textbook of Gynecology*. PARRIS' *Textbook of Gynecology*. MONTGOMERY'S *Textbook of Gynecology*. FARRAR'S *Manual of Gynecology*. FARRAR'S *Manual of Gynecology*.
- Diseases of Children.** H. C. WOOD'S *Textbook of Pediatrics and Child Life*. J. LINDLEY SMITH, MORGAN, OR PARRIS' *Pediatrics*. RICHMOND WOOD.
- Histology.** LINDLEY, A. LINDLEY, SUMNER, LINDLEY, OR LINDLEY'S HISTOLOGY.
- Pathology and Bacteriology.** AMERICAN PRACTICE OF PATHOLOGY. ZIEGLER'S *Pathological Anatomy*.
- Hygiene.** PARRIS' *Practical Hygiene*. STEPHENSON'S *Practical Hygiene*. FARRAR'S *Practical Hygiene*. FARRAR'S *Practical Hygiene*.
- Dermatology.** HAYES'S *Diseases of the Skin*. LINDLEY'S *Diseases of the Skin*. LINDLEY'S *Diseases of the Skin*.
- Ophthalmology.** NATHAN, LINDLEY, OR SUMNER, OR PARRIS.
- Minor Surgery.** WOODWARD.
- Nervous Diseases.** TEXT BOOK, PARRIS' *Nervous and Mental Diseases*. OSLER, PARRIS, OR LINDLEY'S *Nervous and Mental Diseases*.
- Mental Diseases.** LINDLEY'S *Nervous and Mental Diseases*.
- Orthopedic Surgery.** BRIDGES, LINDLEY'S *Orthopedic Surgery*.
- Laryngology and Otology.** BRIDGES, LINDLEY'S *Laryngology and Otology*. RICHMOND, LINDLEY'S *Laryngology and Otology*. LINDLEY'S *Laryngology and Otology*. LINDLEY'S *Laryngology and Otology*. LINDLEY'S *Laryngology and Otology*.
- Medical Jurisprudence.** RICHMOND, LINDLEY'S *Medical Jurisprudence*. WOODWARD'S *Medical Jurisprudence*.
- Genito-Urinary and Venereal Diseases.** WOODWARD'S *Genito-Urinary and Venereal Diseases*. WOODWARD'S *Genito-Urinary and Venereal Diseases*.
- Dictionaries.** DUNSTON'S, LINDLEY'S, LINDLEY'S, LINDLEY'S.

* The works first named are in French or German.

EXPENSES.

For the session of 1902, 1903 and thereafter the fee for each year will be \$110. This covers all expenses, dissection and laboratories included, except breakage or loss of valuable apparatus in the laboratories. Of the total fee for the year at least \$25 must be paid upon entrance and again before beginning dissection. Each graduate pays a \$10 fee for diploma.

A deposit is required to defray the expense of apparatus destroyed in the chemical and other laboratories.

For *special* courses only, separate from the regular courses, the following fees will be charged:

Matriculation fee, payable only once	\$5 00
Single tickets	25 00
Practical Anatomy, by the Demonstrator	15 00
Laboratory tickets, each, per year	20 00

Payment of the fees is required in all cases, and must be made at the commencement of the session, unless there are *special* arrangements with the *Dean* to suit the convenience of the student.

The prices of board range from \$12 to \$30 per month, and rooms may be obtained for \$10 and upward per month, according to location, etc.

SCHOLARSHIPS.

By virtue of a liberal endowment from the late Mr. W. W. Corcoran, this School is enabled to offer six free Scholarships.

Two of these Scholarships are open for competitive examination to the graduates of the several High Schools of the District of Columbia. These two scholarships are awarded to the two students whose averages are highest.

Two of the Scholarships are open for competitive examination to graduates of any reputable High School or College (preference being given to those in the District of Columbia) who shall give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two Scholarships are awarded to the two graduates whose averages are highest.

The remaining two Scholarships are open for competitive examination to students who, though not graduates of any High School or College, yet give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two scholarships are awarded to the two students whose averages are highest.

In addition to the above mentioned six Cotterian Scholarships, the Faculty offer two Medical Missionary Scholarships, which will be given to those applicants who after one year's work are judged by the President of the University best qualified to enter the study of medicine for the purpose of becoming medical missionaries.

Application should be addressed to the Dean and sent in not later than the first of September.

The new School Building is situated opposite a Government reservation, at No. 1325 H Street, N. W. The UNIVERSITY HOSPITAL BUILDINGS at 1333 and 1350 H Street, N. W., within half a square of all lines of street cars going to every part of the city.

Students desiring further information are requested to address

Dr. E. A. DE SCHWEINITZ, *Dean*,

1325 H Street.

STUDENTS IN MEDICINE.

First Year Students.

Name	State	Address.
Ammerman, C. C.	N. Y. . .	941 N. C. Avenue.
Baldwin, H.	Ill.	Post Office Dep't.
Beale, K. F.	Mass. . .	315 V Street, N. E.
Boyd, C. R.	Va.	417 New York Ave.
Brown, E. N.	Conn. . .	Brookland, D. C.
Browne, R. W.	Mass. . .	517 H Street.
Browning, A. J.	Md.	Riverdale, Md.
Bryan, H. B.	Va.	Alexandria, Va.
Buchanan, C. H.	W. Va. . .	915 I Street.
Burch, E. N.	Md.	218 I Street, S. E.
Bush, D. P.	Neb.	1015 I Street.
Camp, G. H.	Pa.	1362 N. C. Ave., N. E.
Chapman, J. M.	Md.	1317 Q Street.
Chapman, S. F.	Va.	225 E Street.
Cowan, W. F.	Wis.	916 I Street.
Currie, J. D.	Texas. . .	308 C Street, N. E.
Dent, W. L.	Md.	Bowie, Md.
Edmonds, C. A.	D. C. . .	1239 Kenesaw Ave.
Elrod, W. W.	Ind.	St. Elizabeth's.
Everett, C. V.	Md.	War Department.
Fisher, E. E.	D. C. . .	206 7th Street, S. W.
Fisher, R. A.	D. C. . .	505 B Street, N. E.
Foley, T. M.	Pa.	1922 H Street.
Forsythe, J. S.	Miss. . .	Room 407, P. O. Dep't.
French, W. J.	Minn. . .	1133 24th Street.
Garrison, P. E.	N. J.	Congressional Library.
Grant, J. L.	Va.	112 D Street.
Grayson, C. S.	N. C. . .	4284 M Street.
Greer, R. P. L.	W. Va. . .	315 3d Street, N. E.
Gunning, E. J.	Pa.	223 A Street, S. E.
Henning, S. S.	N. D. . .	Navy Department.
Hickok, L. W.	N. Y. . .	500 M Street.
Hillegass, R. J.	Pa.	1328 New York Ave.
Headley, F. N.	S. Y. . .	Hotel Belvedere.

Name	State	Address
Hodson, E. R.	Iowa	1221 10th Street.
Holland, J. H.	D. C.	1421 S Street.
Houghton, C. H.	Mass.	607 4th Street.
Hovsepian, A. G.	Armenia	736 12th Street.
Humphries, J. W.	Va.	St. Elizabeth's.
Johannes, D.	D. C.	Woodside, Md.
Jones, G. L.	D. C.	2010 14th Street.
Kearney, J. H.	Pa.	517 2d Street.
Kemle, A.	Pa.	Barnes Hospital.
Kline, L. B.	Va.	1108 16th Street.
Kohlhaus, George	Pa.	1104 9th Street.
Kundemer, A. B.	Iowa	916 N. C. Avenue.
Krulich, Emil	Minn.	1206 M Street.
Kuehn, F. W.	Ind.	1129 5th Street.
Lanza, A. J.	N. Y.	1232 13th Street.
Lightle, J. E.	Ark.	1311 M Street.
Littlepage, W. H.	Ark.	1007 13th Street.
Maxwell, R. B.	Tenn.	1002 E. Cap. Street.
Meloy, A. N.	Md.	Meadows, Md.
Murphy, J. A.	D. C.	1103 10th Street.
McConnell, J. H.	N. Y.	1104 9th Street.
McComick, E. S.	D. C.	Branch P. O., Sta. D.
Newton, E. S.	Mass.	618 E. Capitol Street.
O'Donnell, G. K.	D. C.	200 4th Street, S. E.
Osborne, E. L.	Ga.	1015 I. Street.
Peterson, M. D. E.	Ill.	923 I. Street.
Pfender, C. A.	Texas	476 Penna Avenue.
Pickett, J. K.	Ga.	918 I Street.
Pindar, W. S. H.	N. Y.	707 H Street.
Pnee, T. M.	Md.	College Park, Md.
Rason, T. W.	Ky.	The Litchfield.
Repetti, Fred.	D. C.	527 6th Street, S. E.
Reynolds, C. W.	N. Y.	1918 H Street.
Rittenour, F. H.	Va.	Alexandria, Va.
Robnett, A. H.	Texas.	1015 I. Street.
Rollins, J. Lester.	D. C.	817 D Street, S. W.
Shea, W. E.	Idaho	Sixth Auditor's Office.
Simpson, P. A.	Ill.	Treasury Department.
Spottswood, J. C.	D. C.	70 I Street.

NAME	STATE	ADDRESS
Stanley, A. C.	W. S.	926 23d Street
Stiles, G. W., Jr.	Okla.	B. A. I., Agr. Dep't.
Talbott, J. A.	Md.	Frederick Hotel.
Tallmadge, H. H.	Pa.	2924 14th Street.
Taniguchi, N. K.	Japan.	1605 8th Street.
Tastet, D. W.	D. C.	1430 V Street
Travers, A. M.	Mich.	Post-Office Dep't.
Trow, W. G.	D. C.	414 C Street, S. E.
Waldecker, F. C.	Kans.	1149 21st Street.
Wartfield, W. A.	Va.	Alexandria, Va.
Waters, C. L.	Md.	1490 Concordian Street.
Watters, M. H.	Vt.	227 N. J. Ave., S. E.
Wells, S. J. T.	D. C.	800 30th Street.
West, A. M.	Mass.	Agricultural Dep't.
Wharton, J. J.	Va.	1413 F Street.
White, William	Tenn.	1326 G Street.
Whitney, L. L.	N. Y.	736 3d Street.
Wilcox, H. L.	Pa.	124 10th Street, N. E.
Wirkinson, W. W.	Va.	Navy Department.

Second Year Class.

NAME	STATE	ADDRESS
Alleman, Albert	Switzerland	124 D Street, N. E.
Aiken, F. A.	Minn.	1016 8th Street.
Barnhart, G. S.	Pa.	810 14th Street.
Bean, B. M.	N. H.	307 B Street, N. E.
Bennett, R. A.	Pa.	Riversdale, Md.
Bernstein, H.	N. Y.	924 4th Street.
Broughton, W. S.	Ill.	Treasury Department.
Brown, H. A.	N. J.	121 A Street, N. E.
Buchanan, A.	N. C.	802 14th Street.
Buck, J. R.	Maine	State Department.
Butts, Heber	Mo.	Treasury Department.
Carty, A. B.	Md.	229 Mass. Avenue.
Christmas, W. W.	N. C.	1234 I Street.
Clark, W. E.	Pa.	1021 Conn. Avenue.
Court, E. J.	D. C.	3303 15th Street.
Craig, A. E.	D. C.	3125 O Street.
Crandall, H. Noble	Pa.	209 3d Street, S. E.

Name	State	Address
Cummings, O. G.	Va.	433 G Street.
Dewey, R. C.	Minn.	Marine Barracks.
Dollman, M. C.	Va.	723 8th Street.
Estes, R. M.	Ky.	1107 1st St.
Farrall, J. C.	Md.	216 5th Street, S. E.
Fisher, J. G.	Pa.	1733 Mass. Avenue.
Fishkorn, Robert	Pa.	1333 Mass. Avenue.
Fuller, H. G.	D. C.	1615 Florida Avenue.
Gale, J. C.	Pa.	Dist. Com. Office.
Gorny, J. L.	D. C.	1034 Street, N. E.
Gough, T. F.	Md.	College Park, Md.
Graft, C. C.	D. C.	1107 I Street.
Hanson, L. H.	Wis.	900 14th Street.
Harrington, F. E.	Va.	1404 I Street.
Harrison, C. A.	Ill.	1208 K Street.
Hart, F. M.	N. Y.	1072 Consonan Street.
Hart, J. W.	Mass.	202 Indiana Avenue.
Higgins, M. E.	Md.	Boyd's, Md.
Holmes, J. A.	D. C.	2187 K Street.
Houghton, M. W.	D. C.	1444 N Street.
Hoy, C. L.	Ill.	Woolley Inn.
Hudson, W. B.	D. C.	Washington Asylum.
Hunt, A. L.	Maine	1208 M Street.
Hyde, C. W.	Ohio	1233 Mass. Avenue.
Hynson, L. M.	D. C.	623 S. C. Avenue.
Jones, E. E.	D. C.	1040 9th Street.
Jones, S. A.	Ohio.	Navy Department.
Lewis, A. C.	Va.	1323 M Street.
Linville, Thomas	N. C.	435 Mass. Avenue.
Lynch, J. M.	Texas.	1534 Mass. Avenue.
McClure, F. F.	Iowa	1224 13th Street.
McDaniel, J. M.	S. C.	1419 K Street.
McKenney, R. J.	Minn.	915 16th Street.
Martine, F. L.	N. J.	Census Office.
Martyn, H. E.	D. C.	232 9th Street, S. E.
Mejor, G. S.	Md.	118 C Street.
Merrill, E. D.	Maine	1502 17th Street.
Monroe, A.	Russia	Gov. Printing Office.
Montgomery, F.	D. C.	2200 Wash. Circle.

Name.	State.	Address.
Murray, A. L.	D. C.	10 3d Street, N. E.
Neill, L. C.	Tenn.	824 13th Street.
Nolan, J. W.	Ky.	Census Office.
Norcross, A. C.	Pa.	1005 13th Street.
Nutting, H.	N. Y.	209 A Street, S. E.
Olsen, E. T.	Ill.	227 N. J. Avenue, S. E.
Owensby, N. M.	Texas.	623 13th Street.
Patten, W. F.	N. D.	723 8th Street.
Pearson, R. A.	D. C.	Agricultural Dep't.
Peterson, G.	Md.	721 12th Street.
Piper, E. L.	Maine.	213 D Street.
Powell, L.	Va.	Alexandria, Va.
Prosser, W. H.	D. C.	501 8th Street, S. E.
Pyles, J. C.	Md.	Anacostia, D. C.
Rager, H. S.	Ohio.	1013 I. Street.
Reynolds, McP.	Kans.	238 8th Street, N. E.
Rhees, B. J.	D. C.	Treasury Department.
Roller, R. D.	W. Va.	1307 Concoran Street.
Ruedy, R. C.	Va.	Garfield Hospital.
Saffold, G. S.	Md.	924 R Street.
Sanderson, C. R.	D. C.	638 A Street, S. E.
Schulze, W.	La.	316 C Street.
Sells, G. J.	Tenn.	4284 M Street.
Seitz, R. E.	Ill.	1013 I. Street.
Sterne, C. F.	D. C.	3009 P Street.
Stetson, Thomas	D. C.	2019 Partner Place.
Syme, W. H.	W. Va.	2106 18th Street.
Thompson, J. L.	D. C.	24 Grant Place.
Towner, F. H.	D. C.	1316 7th Street.
Warman, E. C.	Pa.	2224 F Street.
Webb, P. L.	D. C.	4319 Emerson Street.
Wellner, J. C.	Pa.	924 I Street.
West, R. T.	Md.	Rockville, Md.
White, C. C.	Ind.	1529 Concoran Street.
Williams, A. H.	Vt.	726 17th Street.
Young, W. G.	Tenn.	906 M Street.

Third Year Class.

Name.	State.	Address.
Bagby, B. B.	Va.	631 8th Street, N. E.
Brenzer, G.	N. C.	1606 K Street.
Brian, E. G.	Md.	34 I Street.
Brandenburg, W. R.	D. C.	2325 18th Street.
Butterfield, F. E.	D. C.	1521 T Street.
Coburn, H. C., Jr.	D. C.	2411 G Street.
Cook, G. B.	Va.	3 Thomas Circle.
Donnelly, H. H.	Minn.	511 B Street, N. E.
Eagin, E. A.	Ohio	1115 9th Street.
Fitch, A. C.	N. Y.	29th and O Streets.
Fitch, F. A.	Ky.	154 Thomas Street.
Franklin, E. T. M.	Va.	Alexandria, Va.
Galatz, W. F.	Md.	221 8th Street, N. E.
Gunnell, J. H.	D. C.	1831 Kalorama Ave.
Harley, R. C.	Md.	Forest Glenn, Md.
Hawes, C. S.	Mass.	1231 Harvard Street.
Holloway, T. C.	Ky.	Agricultural Dep't.
House, Z. E.	Md.	1102 E street, S. E.
Lawson, H. W.	Mich.	1122 N. H. Avenue.
Maling, E. H.	Maine	1507 R. I. Avenue.
Mallory, W. J.	Va.	1191 14th Street.
Manville, W. E.	Tenn.	1305 H Street.
May, C. H.	Va.	Alexandria, Va.
Murphy, T. E.	Maine.	Census Office.
McNeil, I.	Tenn.	1719 G Street.
Nyman, C. V.	Ill.	1130 12th Street.
Oswell, C. A.	N. Y.	1848 Wyoming Ave.
Prevatt, J. T.	Ga.	Geological Survey.
Price, M. H.	Va.	1255 H Street, N. E.
Reed, C. E.	Md.	1206 T Street.
Schwab, T. W.	Pa.	1106 8th Street.
Slater, C. V.	D. C.	1735 S Street.
Smith, D. G.	D. C.	191 I 13th Street.
Smith, H. T.	Pa.	Washington Barracks.
Smith, L. C.	Va.	Alexandria, Va.
Snowden, E.	Va.	Alexandria, Va.
Spelden, E.	D. C.	639 Elliott Street, N. E.
Stevens, H. P.	Pa.	1119 I Street.

Name	State	Address
Taylor, L. H.	Va.	1644 R Street.
Williamson, N. E.	Ill.	Army Med. Museum.
Womble, H. B.	La.	171 Mass. Ave., N. E.
Young, S. E.	Mich.	Census Office.
Zieske, F. T.	Mich.	Washington Barracks

Fourth Year Students

Name	State	Address
Anderson, U. G.	N. J.	717 11th Street.
Blye, B. F.	N. Y.	440 V Street.
Boyer, G. M.	Md.	1408 8th Street.
Bridget, J. D.	Miss.	622 13th Street.
Caldwell, H. C.	D. C.	807 11th Street.
Conyngton, William	Texas.	Navy Department.
Costello, M. E.	N. Y.	Hyattsville, Md.
Cuthbertson, C. W.	N. C.	622 E Street.
Emery, O. V.	Pa.	Treasury Department
Fadeley, F. F.	Va.	2023 N Street.
Foster, C. L.	Miss.	25 9th Street, N. E.
Fry, Samuel	La.	The Fredonia
Gilechrist, E. Y.	Pa.	University Hospital.
Glascrock, A.	Va.	1732 P Street.
Gotta, Robert C.	Pa.	818 New Jersey Ave.
Graham, H. H.	Ohio.	305 H Street.
Hales, R. A.	N. C.	1325 12th Street, N. E.
Hester, F. D.	Va.	The Portner.
Hondley, A. M.	D. C.	Hotel Belvedere.
Hudson, E. C.	Texas.	316 C Street.
Jewett, H. M.	N. H.	Garfield Hospital
Johnson, E. T.	Mich.	1442 Florida Avenue.
Jones, E. B.	Ind.	1340 21st Street.
Land, J. P.	Va.	1732 P Street.
Little, R. M.	Ohio.	U. S. Jail.
Lovelace, C.	Texas.	1019 P Street.
Lyon, M. W., Jr.	N. J.	National Museum.
McKee, W. P.	D. C.	Episcopal Hospital.
McKeldin, R. A. W.	Pa.	131 6th Street, N. E.
Magruder, E. P.	Md.	1308 I Street.
Mitchell, J. E.	Md.	814 13th Street.

MEDICAL SCHOOL.

241

Name	State	Address
Murray, A.	Va.	Alexandria, Va.
Nelson, A. T.	Va.	University Hospital.
Parsells, C. W.	N. Y.	1033 I. Street.
Perry, C. R.	Va.	610 21st Street.
Pipes, H. F.	W. Va.	916 T Street.
Pool, L. H.	Texas.	621 13th. Street.
Price, H. M.	D. C.	Washington Asylum.
Quinn, W. A.	D. C.	801 E. Capitol Street.
Ransdell, R. C.	Ind.	130 B Street, N. E.
Rogers, J. D.	Va.	University Hospital.
Robey, W. I.	Va.	University Hospital.
Rucker, H. C.	Va.	St. Elizabeth's.
Ruth, George M.	N. C.	1025 Vermont Avenue.
Simmons, M. J.	Md.	15th and F Streets.
Smith, H. W.	Pa.	The Dinsell.
Stoddard, L. F.	N. Y.	1370 New York Ave.
Turner, K. B.	Kans.	Children's Hospital.
Williams, J. H.	Ga.	War Department.
Wimberly, G. W.	Ga.	Indian Office.

Special Students.

Name	State	Address
Abernothy, E. A.	N. C.	1948 2d Street.
Austin, Samuel D.	Miss.	1000 S Street.
Barnes, James H.	N. Y.	717 10th Street.
Halliday, John.	Ill.	1728 Concord Street.
McCormick, E. S.	Mo.	Station D.
Price, T. M.	N. C.	College Park, Md.

Total..... 283

DENTAL SCHOOL.

THE FACULTY.

REV. SAMUEL H. GREENE, D. D., LL. D.,
President pro tempore.

J. HALL LEWIS, D. D. S.,
Dean,
Professor of Dental Prosthetics.

HENRY C. THOMPSON, D. D. S.,
Professor of Operative Dentistry.

D. KERFOOT SHUTE, M. D.,
Professor of Anatomy.

EMIL A. DE SCHWEINITZ, M. D.,
Professor of Chemistry.

WILLIAM P. CARR, M. D.,
Professor of Physiology.

STERLING RUFFIN, M. D.,
Professor of Materia Medica and Therapeutics.

JONATHAN R. HAGAN, D. D. S.,
Professor of Oral Surgery.

W. F. R. PHILLIPS, M. D.,
Demonstrator of Anatomy.

JOHN B. NICHOLS, M. D.,
Professor of Normal Histology.

WALTER REED, M. D.,
Professor of Pathology and Bacteriology.

WILLIAM H. TRAIL, D. D. S.,

R. E. L. HACKNEY, D. D. S.,

CHARLES R. RICE, D. D. S.,

H. W. JOHNSON, D. D. S.,

WILLIAM C. FISHER, D. D. S.,

CHARLES B. KEEFER, D. D. S.,

Demonstrators, in Charge of Infirmary.

DEPARTMENTS OF INSTRUCTION.

The Regular Course of Lectures begins on October 1, 1902, and continues seven months.

The Introductory Lecture of the Course will be delivered by Dr. J. Hall Lewis, on the above date, and the regular Lectures will continue throughout the session, beginning at 5.30 p. m. of each week day.

The courses of instruction extend through three years, and are arranged as follows:

First Year. — Anatomy, Physiology, Chemistry, and Materia Medica, together with Practical Anatomy, Operative and Prosthetic Techniques, and such Infirmary work as is suitable for first-year students.

Second Year. — The subjects of the first year are continued, and to these are added Operative Dentistry, Prosthetic Dentistry, and Histology, with more advanced Infirmary work.

Third Year. — This year is devoted to Operative and Prosthetic Dentistry, Oral Surgery, and Bacteriology. An examination is held at the end of each year on all subjects taught during that year.

As, however, no amount of scientific attainment can compensate for lack of manipulative skill, a large part of the student's time is devoted to actual practice in the Infirmary, for which purpose the large and centrally located Dental School building gives ample opportunities.

The operating room fronts on one of the Government reservations, and thus has a full, unobstructed light, so desirable in dental operations. It is furnished with all necessary appliances that will enable a student to acquire the knowledge of office practice, as well as a diversity of clinical experience.

A large, comfortable, and well-lighted Dental Laboratory is supplied with all the requirements for the successful practice of Prosthetic Dentistry, and lockers are available for the safe-keeping of instruments belonging to the students.

The extracting room is separate from the others, and is fitted up for the proper administration of the various anesthetics, under the immediate supervision of a demonstrator thoroughly skilled in their application.

Special attention is called to the thoroughness of the practical instruction in the infirmary, which is under the immediate supervision of Professor Lewis and Drs. Trail and Hackney, the Demonstrators in charge. They are in constant attendance during the entire term, directing and overseeing the operations of the students, who thus have the benefit of their many years of experience in Dental Practice.

The infirmary is open every week day for nine continuous months, being closed during the months of July, August, and September, during which time an abundance of clinical material is readily available. In fact, fully as many patients present themselves as can possibly be attended to by the students.

The student has, therefore, the privilege of twenty-seven months' actual practice in the infirmary, during which time he may become proficient in all those operations which the dental surgeon is ordinarily called upon to perform in office practice.

This School complies with all the requirements of the National Association of Dental Faculties, and also with those of the National Association of Dental Examiners, in so far as the requirements of the latter do not conflict with those of the former.

NEW BUILDING.

The Faculty take pleasure in announcing that the new home of the Dental School, now in process of construction, will be ready for occupancy on October 1 next.

This building will be 50 feet by 144 feet, five stories in height, of fire proof construction, and with every facility for the instruction and comfort of the students. There will be four large Lecture Halls, with modern heating and ventilating appliances. The Laboratories for Chemistry, Histology, Physiology, Bacteriology, Pathology, and Anatomy will be models of their kind, while the Operative and Prosthetic Technique laboratories will be thoroughly equipped for Technic instruction.

The Dental Infirmary will be 50 feet by 75 feet, on the third floor; in order to have an unobstructed light, it will have large windows on three sides; there will be a joining Prosthetic Laboratories, separate lavatories for students and patients, and lockers sufficiently high to accommodate a dental engine—in fact, everything will be provided to insure the comfort and convenience of all who are to occupy or visit this portion of the building.

SCHEDULE OF LECTURES, 1902-1903.
BEFORE CHRISTMAS.

[illegible]

AFTER CHRISTMAS.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
6:00	Prd. 1st. Period. Orthography Lecture Room Classroom 1 and 2	Prd. 1st. Period. Lecture Room Classroom 1 and 2	Prd. 1st. Period. Lecture Room Classroom 1 and 2	Prd. 1st. Period. Orthography Lecture Room Classroom 1 and 2	Prd. 1st. Period. Lecture Room Classroom 1 and 2	Prd. 1st. Period. Lecture Room Classroom 1 and 2
7:00	Prd. 2nd. Period. Lecture Room Classroom 1 and 2	Prd. 2nd. Period. Lecture Room Classroom 1 and 2	Prd. 2nd. Period. Lecture Room Classroom 1 and 2	Prd. 2nd. Period. Orthography Lecture Room Classroom 1 and 2	Prd. 2nd. Period. Lecture Room Classroom 1 and 2	Prd. 2nd. Period. Lecture Room Classroom 1 and 2
8:00	Prd. 3rd. Period. Lecture Room Classroom 1 and 2	Prd. 3rd. Period. Lecture Room Classroom 1 and 2	Prd. 3rd. Period. Lecture Room Classroom 1 and 2	Prd. 3rd. Period. Orthography Lecture Room Classroom 1 and 2	Prd. 3rd. Period. Lecture Room Classroom 1 and 2	Prd. 3rd. Period. Lecture Room Classroom 1 and 2

PROSTHETIC DENTISTRY AND METALLURGY.

PROFESSOR LEWIS.

In this department the principles involved in the construction of artificial substitutes are exhaustively considered, and the lectures supplemented by practical demonstrations of the subjects mentioned.

In addition to the more commonly used vegetable bases for artificial teeth, the use of Gold, Silver, and Platinum is thoroughly taught, and Bridge Work, the construction of appliances for correcting Oral Irregularities, etc., are carefully considered.

The modes of preparation, properties, etc., of the Metals and Alloys of particular interest to the Dentist receive special attention.

The instruction is thoroughly practical, with the purpose of preparing the student for the actual every day practice of Prosthetic Dentistry.

OPERATIVE DENTISTRY, DENTAL ANATOMY,
AND PATHOLOGY.

PROFESSOR THOMPSON.

This course embraces lectures on the Special Anatomy and Physiology of the Teeth. The origin, growth, and eruption of the teeth receive minute attention, and are illustrated as their importance demands.

The methods of treating, filling, and extracting teeth receive attention in the lecture room, and are demonstrated clinically by gentlemen whose reputations are fully established as proficient operators. Extended consideration is given to Dental Pathology and Therapeutics.

CHEMISTRY.

PROFESSOR DE SCHWEINITZ.

The instruction in this department embraces:

A short discussion of the principles of Physics in their relation to Chemistry, the principles of Chemical Philosophy, and the laws of Chemical Combination.

A study of the elements, metallic and non-metallic, the preparation, properties, and reaction of their different compounds and their application in Dentistry.

Organic Chemistry, with special attention to those organic compounds that are of practical use.

Laboratory instruction in the determination of acids and bases, analyses of alloys, etc.

PHYSIOLOGY.

PROFESSOR CARR.

The subject is fully covered by a two years' course of lectures, and these lectures are so illustrated by modern diagrams, models, and experiments as to make them clear in every detail. Emphasis is given to those truths that have a known practical value.

MATERIA MEDICA AND THERAPEUTICS.

PROFESSOR RUFFIN.

Instruction in this department extends through the first two years, and embraces:

The study of crude drugs and their preparations, and the art of prescribing.

The physiological action of drugs in the human system.

The practical application of drugs and other therapeutical agencies to the prevention and cure of diseases and the relief of suffering, together with their antidotal relations to poisons.

The subject is taught by means of lectures, recitations, and blackboard illustrations, and is simplified and made practical to as great a degree as is compatible with a sufficiently thorough understanding of its principles.

In connection with this chair is a pharmaceutical laboratory, well equipped with modern appliances, in which are taught the making of typical preparations of the Pharmacopœia, prescription writing, and the compounding of prescriptions.

ANATOMY.

PROFESSOR SHELL.

This course of lectures is arranged with the view to render the didactic instruction in Anatomy as full and complete as the limits of the session will allow.

The lectures are illustrated by frequent reference to recent dissections and numerous drawings and diagrams. The scripticon also is constantly employed to present photographic views of many regions of the body.

Public oral examinations are conducted by the Lecturer from time to time.

The Prosectors to the Chair of Anatomy prepare the subject for the Lecturer.

The Demonstrator of Anatomy and his assistants give their personal attention to the students in the dissecting-room.

Practical Anatomy.

The dissecting room is large, thoroughly ventilated, well lighted, and furnished with every requisite for the convenience and comfort of the student. Anatomical material is abundantly supplied free of charge. The room is open during the day and at night until 11 p. m., or even later on some occasions. It is under the supervision of the Faculty and the immediate direction of the Demonstrator of Anatomy, who, with his assistants, is present at stated hours to give his personal attention to the students and to instruct his classes in their dissections.

ORAL SURGERY.

PROFESSOR HAGAN.

A full course of Lectures upon this subject is given, and arrangements have been made for Clinical Demonstrations in the Infirmary, in order to teach more thoroughly this interesting branch of General Dentistry.

HISTOLOGY

PROFESSOR NICHOLS

The course in Histology consists in a systematic presentation of the subject of the minute anatomy of the various parts of the body, especial attention being devoted to the histology of the teeth and neighboring structures. The subject is presented partly by systematic lectures, and more especially by the practical study by the individual students of actual specimens under the microscope. The methods of preparation of microscopical specimens are presented and practiced in the laboratory. The projection microscope, which affords valuable aid in illustrating and presenting the subject, is constantly used.

BACTERIOLOGY.

PROFESSOR REED.

The course is begun with a consideration of the principles involved in the process of sterilization by dry and moist heat, the relative value and mode of application of each, and an examination of the construction of the apparatus employed for the purpose. The use and construction of the thermostat is taken up at the same time and the student taught how he can dispense with these costly appliances in emergencies.

The composition and modes of preparation of the various nutritive media are next considered, working formulas given, and the students required to prepare them at least once in the laboratory. This is followed by a discussion of bacteria as a class, their position in the biological world, their classification, distribution, and the general and special characters that belong to them.

After this preparatory training the various methods in use for the isolation and study of bacteria are taught by practical demonstration and practiced by the students, after which the most important pyogenic organisms are studied in detail, giving special attention to those found in the nasal and oral cavities.

The aim of the course is chiefly to afford the students an opportunity to become practically familiar with bacteriological

working methods, and to enable them to isolate and identify the bacteria present in suppurative processes, as well as to comprehend intelligently the references to micro-organisms in the current professional literature of the day.

ADMISSION.

The minimum preliminary educational requirement of this college, beginning with the session of 1902-1903, will be a certificate of entrance into the third year of a high school or its equivalent. The preliminary examination will be placed in the hands of the State Superintendent of Public Instruction.

ADVANCED STANDING.

The following is considered as equivalent to one course in this school: A diploma from a recognized medical school, or satisfactory evidence that the student has passed the first-year examination in some other reputable dental school.

The following is considered as equivalent to two courses in this School: A diploma from a reputable dental college of evidence of having passed the second year examination in the same.

GRADUATION.

Candidates for graduation must have attended three full courses of lectures, each of seven months' duration, and three courses of Clinical Instruction in this Institution, during the regular winter term and in separate years, with the exceptions noted below.

Students entering after the session of 1902-1903 must have attended four full courses of lectures before being eligible for graduation.

Students are examined at the end of the regular course upon all subjects taught them during that course.

Should the student fail in his examination in the spring, he may be reexamined in the fall.

Students may go up for examination only in the spring and fall upon the dates regularly selected for that purpose.

All fees must be paid and Infirmary requirements complied with before the student may present himself for examination.

Students must enter before, or within ten days after, the opening lecture of the regular Winter Course. They may register at any time during the nine months' Infirmary Course, and thus begin Infirmary practice at once upon payment of twenty five dollars, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate must be examined upon all subjects taught in this School, with exceptions noted above, and before the examination he must perform operations upon the natural organs in the Infirmary, and present the School Museum a well constructed specimen of dental mechanism made by himself in the Dental Laboratory of the University.

In addition to the above requirements, the moral character and habits of the candidate, his industry, and diligent attendance will be taken into consideration. Notable negligence, immorality, or habitual absence from the lectures will preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. This reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

The student also, during and between the School sessions, must comply with the State laws regulating the practice of Dentistry, and act in accordance with the recognized code of ethics of the dental profession.

Candidates for graduation in the Dental School who desire to obtain a medical degree thereafter may be admitted to the medical examination on the primary branches at the termination of their second dental course, provided that, one month before the spring examinations, they give to the Dean written notice of their intention, and provided also that they have complied with the requirements of the Medical School as regards Dissection, the study of Histology, etc.

The degrees are conferred by the authority of The Columbian University, incorporated by act of Congress of the United States.

FACULTY PRIZE.

A prize will be given by the Faculty to the graduate passing the best examination in all branches and having the best Infirmary record. At the last commencement the prize was awarded to J. R. De Fanges, of the District of Columbia.

UNIVERSITY LECTURES.

Students of the Dental School are admitted, without further fee, to the University Lectures. When qualified to profit by them, they can secure admission to other lectures given in the Hall of the University by applying to the Dean.

TEXT-BOOKS AND WORKS OF REFERENCE.

ANATOMY. — *Gerrish, Gray's,* Holden's Manual of Dissection.*
 PHYSIOLOGY. — *Yeo's or Kirke's Physiology.*
 CHEMISTRY. — *Simon's, Fowne's, or Mitchell's Chemistry.*
 MATERIA MEDICA. — *H. C. Wood's Pharmacopoeia; National Dispensatory; Eades' Therapeutics.*
 PROSTHETIC DENTISTRY. — *The American Text-book of Prosthetic Dentistry; Essig's Dental Metallurgy.*
 OPERATIVE DENTISTRY. — *Harris' Principles of Practice; Tome's Dental Anatomy and Surgery; Taft's Operative Dentistry; American System of Dentistry; Litch; Gould's Medical Technology.*
 ORAL SURGERY. — *Marshall's Oral Surgery.*

EXPENSES.

First Year	\$100 00
Second Year	100 00
Third Year	110 00

The above includes all the tuition expenses. There are no extras whatever. The Dissection Material, Chemicals, Instruction in the Histological, Pharmaceutical, and Chemical Laboratories and Dental Infirmary are all furnished to the students free of charge.

* The works first named are the best and most practical.

Each student must furnish his own books and dental instruments.

The student is required to make a payment of twenty-five dollars upon registering, and twenty-five dollars additional must be paid before he may avail himself of Laboratory and Infirmary instruction.

The prices of board and all other personal expenses are as reasonable in Washington as in other large cities.

The Dean may be seen personally at 1023 Vermont avenue, on any week day, from 3.30 to 4.30 p. m., and also at the Dental School Building, 1325 H Street, N. W., on Monday, Wednesday, and Friday of each week, from October 1 to May 1, between the hours of 6.30 and 8 o'clock p. m.

For further information regarding the Dental School, application may be made to

J. HALL LEWIS, *Dean,*
1023 Vermont Avenue.

STUDENTS OF DENTISTRY.

Freshmen.

Name	State.	Address
Bassett, C. T.	N. Y. .	1004 11th Street.
Bovee, C. L.	Miss. .	1404 H Street.
Bartlett, L. M.	Mass. .	2337 18th Street.
Chapman, N.	Md.	1317 Q Street.
Crawford, W. H.	Ky.	1460 Concoran Street.
Daniels, R. H.	Ala.	The Litchfield.
Darling, A. R.	N. Y.	4th and E. Capitol Sts.
Davie, J. W.	N. Y.	4204 L Street.
Duncan, J. C.	Iowa . .	106 7th Street, N. E.
Elzey, W. J.	Md.	818 6th Street.
Fluckey, J. A.	Ill.	214 5th Street, N. E.
Francis, W. E.	D. C. .	708 A Street, N. E.
Graham, E. B.	N. Y. .	515 3d Street.

Name	State	Address
Gulliksen, Charles	N. Dak.	1295 M Street.
Haggerty, J. E.	N. Y.	73 R Street.
Hutchinson, W. F.	D. C.	509 6th Street.
Jett, F. H.	Ind.	1839 G Street.
Keen, C. F.	Va.	Chevy Chase.
King, Paul	Japan	
Lambkin, L. A. G.	N. Y.	1104 12th Street.
Leahy, E. J.	D. C.	639 F Street, S. W.
Love, S. W. E.	D. C.	1706 Corcoran Street.
McGrew, J. L.	Neb.	216 New York Avenue.
Marschalk, L. V. B.	Fla.	1248 Md. Ave., N. E.
Marschalk, W. A. Jr.	Fla.	917 F Street, N. E.
Meoy, H. B.	Md.	118 C Street, N. E.
Miller, A. L.	N. Y.	Takoma Park, D. C.
Moore, H. A.	W. Va.	1016 15th Street.
Murphy, D. F.	D. C.	614 M Street.
Nyce, B. B.	Md.	
Orrison, F.	Va.	908 6th Street.
Pack, J.	Pa.	The Lexington.
Peffers, H. B.	Ill.	817 15th Street.
Potter, V. W.	Wis.	202 Indiana Avenue.
Pollock, J. W.	Ind.	413 G Street.
Reynolds, McP.	Ill.	228 9th Street, N. E.
Robinson, J. N.	W. Va.	Washington Asylum.
Roux, R. H.	Fla.	917 I Street.
Trivett, A.	N. C.	635 14th Street, N. E.
Wood, J. H.	D. C.	1133 6th Street, S. W.

Junior Class.

Name	State	Address
Adams, C. E.	Mo.	1223 41th Street.
Belford, E. E.	Ohio	1911 G Street.
Brownlow, W. G.	Tenn.	913 I Street.
Cochran, E. N.	Md.	429 6th Street.
Constantini, C. L.	D. C.	411 Mass. Avenue.
Cooksey, C. B.	D. C.	225 12th Street, S. W.
Febuary, L. W.	Tenn.	913 I Street.
Fitzpatrick, W. J.	Ky.	745 9th Street.
Glotfelty, W. B.	Md.	1522 10th Street.

Name	State	Address
Greene, W. B.	Maine	10 4th Street, N. E.
Hagan, E. R.	Va.	612 13th Street
Harris, C. H.	Md.	Rockville, Md.
Holland, A. T.	S. C.	913 New York Ave
Huneston, C. A.	Conn.	629 I Street.
Leonard, R. B.	Ill.	3234 N Street.
Murray, E. G.	D. C.	244 6th Street, N. E.
Neely, F. E.	Ind.	35 K Street, N. E.
Nelson, J. T.	Mich.	1347 6th Street.
Perry, F. C.	D. C.	2128 I Street.
Watt, C. L.	Mich.	1016 8th Street.
Wilkerson, T. R.	Va.	1121 1/2 Street, S. W.
Willson, B. P.	Md.	Rockville, Md.

Senior Class.

Name	State	Address
Barr, W. C.	Ill.	2720 N Street.
Bartlett, F. L.	D. C.	1313 H Street.
Brech, J. V.	D. C.	1601 31st Street.
Brown, S. T.	Ill.	1101 13th Street.
Butz, E. M.	Pa.	540 8th Street, S. E.
Cooper, A. B.	D. C.	1133 Dartmouth St.
Cox, Geo. W.	D. C.	80 R Street.
Gardner, B. A.	N. Y.	157 Heckman St., S. E.
Jones, B. C.	Va.	1606 16th Street.
Layton, R. E.	Md.	1201 5th Street.
Mess, C. J.	Ind.	75 N Street.
Miller, P. H.	D. C.	217 G Street, N. E.
Murdock, J. C.	Ill.	432 H Street.
Reuss, W. A.	D. C.	1412 Kenesaw Ave.
Rust, T. L.	Va.	Alexandria, Va.
Smith, E. E.	D. C.	334 F Street.
Stevens, H. P.	Pa.	1119 I Street.
Waldo, G. S.	Ill.	308 2d Street, N. E.
Watts, Walter.	Md.	301 M Street.
White, G. H.	D. C.	1105 E Street, S. W.
Young, Howard.	D. C.	

Total 82

DEGREES CONFERRED IN 1901.

HONORARY.

Doctor of Laws.

William F. Mattingly.

Ph. D., A. M., Columbia University.

Doctor of Humane Letters.

Rev. Augustus Schultze.

UPON EXAMINATION.

Doctor of Philosophy.

William Hamilton.

B. A., Mount Allison College.

M. A., Columbia University.

Chohai Shirasu.

University of Toronto, University.

A. M., Yale University.

Master of Arts.

Reed Page Clark.

B. A., Georgetown University.

Rev. Wm. Wilberforce Costin.

A. B., Mount Allison College.

Herbert Ernest Day.

Ph. B., DePaul University.

Ella May Ford.

William Dean Goddard.

A. B., Chicago University.

Rev. Roisin Harlan.

B. A., Georgetown University.

Elsie Elizabeth Parkinson.

B. A., Georgetown University.

Sarah Harvey Porter.

Rev. Herbert Harry Powell.

Theological University.

Alvis Lemuel Roston.

A. B., Georgetown University.

Pearl Elina Thomsen.

B. S., Georgetown University.

George Figgott Ward.

A. B., Georgetown University.

Master of Science.

Martha Maria Brewer. B. S., Columbian University.	Robert Edward Lee Newberry. M. D., Georgetown University.
George Steed Edelin. B. S., Macomber Agricultural College.	D. D. S., Emory College of Dental Surgery.
Edwin Allston Hill. A. B., Yale College.	Charles Mathias Nissen. B. S., Case School of Applied Science.
Arthur D. Kidder. B. S., Rose Polytechnic Institute.	Atherton Seidell. B. S., University of Georgia.
Edw'd Janney Sidwell Lupton. B. S., Columbian University.	Sidney Fuller Smith. Graduate U. S. Naval Academy.
Thomas Herbert Means. B. S., Columbian University.	Thomas Vincent Sullivan. A. B., Georgetown University.

Mechanical Engineer.

John Adger McChary. B. S., Clemson Agricultural and Mechanical College.	George Henry Swygert. B. S., Clemson Agricultural and Mechanical College.
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Doctor of Civil Law.

L. S. Boyd. B. S., M. S., Adrian State College. LL. B., Tufts University.	Alfred T. Hawksworth. LL. B., LL. M., Columbian University.
Joseph Waddell Butts. LL. B., LL. M., Columbia University.	Glenn Edward Husted. LL. B., LL. M., Columbia University.
Warren R. Choate. LL. B., LL. M., National University. LL. M., Columbian University.	Livingston S. Johnson. LL. B., LL. M., Columbian University.
Charles C. Clark. LL. M., Columbian University.	Kenichi Kodera. LL. B., LL. M., Columbian University.
Thomas Fletcher Dennis. A. M., Illinois College. LL. M., M. Div., Columbian University.	John W. Langley. LL. B., LL. M., National University. LL. M., Georgetown University. LL. B., LL. M., Columbian University.
John T. Harris. LL. B., LL. M., Columbian University.	Franklin D. Mather.

Ormsby McHarg.

LL. B., UNIVERSITY OF MICHIGAN.
LL. M., COLUMBIAN UNIVERSITY.

Charles Gregory McRoberts.

LL. B., LL. M., COLUMBIAN UNIVERSITY.

Avaah Worell Patterson.

LL. B., LL. M., COLUMBIAN UNIVERSITY.

David J. Peppers.

LL. M., COLUMBIAN UNIVERSITY.

Jimmie I. Peyser.

LL. B., GEORGETOWN UNIVERSITY.
LL. M., COLUMBIAN UNIVERSITY.

Henry Woldemar Ruoff.

A. B., UNIVERSITY OF ILLINOIS.
A. B., HARVARD UNIVERSITY.

Richard M. Towson.

LL. B., LL. M., COLUMBIAN UNIVERSITY.

Henry A. Vieth.

LL. B., LL. M., COLUMBIAN UNIVERSITY.

Charles Drake Westcott.

LL. B., LL. M., COLUMBIAN UNIVERSITY.

Godsmith Bernard West.

LL. B., LL. M., GEORGETOWN UNIVERSITY.

Bayard Wyman.

LL. B., UNIVERSITY OF MICHIGAN.
LL. M., COLUMBIAN UNIVERSITY.

Master of Diplomacy.

Win. Loraine Schoeverling.

LL. B., LL. M., CHICAGO LAW SCHOOL.
LL. C. L., COLUMBIAN UNIVERSITY.

J. Gorham Tyssowski.

LL. B., LL. M., COLUMBIAN UNIVERSITY.

Master of Laws.

José C. Abreu.

A. B., ANSONS METROPOLITAN COLLEGE.
MAGISTER P. L.

William E. McClure.

A. B., UNIVERSITY OF OREGON.
LL. B., COLUMBIAN UNIVERSITY.

Fritz v. Briesen.

A. B., HARVARD UNIVERSITY.
LL. B., NEW YORK UNIVERSITY.

Knighton T. Meade.

A. M., ANSONS COLLEGE.
MEMBER OF PRACTISING BAR.

Timothy J. Butler.

LL. B., COLUMBIAN UNIVERSITY.

Yejiro Nakatsuka.

Masatoshi Nishizawa.

LL. B., KEIO COLLEGE UNIVERSITY.

Everett M. Hawley.

Adolph E. L. Johnson.

LL. B., UNIVERSITY OF MICHIGAN.

Charles M. Park.

LL. B., UNIVERSITY OF KANSAS.

Ole L. Johnson.

LL. B., UNIVERSITY OF WISCONSIN.

H. W. Quintance.

A. B., UNIVERSITY OF NOTRE DAME.

Ambrey J. Kline.

LL. B., COLUMBIAN UNIVERSITY.

M. A., UNIVERSITY OF TORONTO.

LL. B., NOTRE DAME UNIVERSITY.

George Dick Rodgers, A. B., Kansas State University, LL. B., National University.	Albert Rhett Stuart, B. A., M. A., LL. B., Connecticut University.
Channing Rudd, LL. B., Kansas City School of Law.	John E. Taylor, Ph. B., V. M., Dickinson College, LL. B., LL. M., National University.
Charles Stephens.	Frank Tharin, LL. B., Columbian University.
Wm. H. Stewart, Jr., LL. B.	George V. Weiner, LL. B., Georgetown University.

Master of Patent Law.

Bluford W. Brackett, LL. B., LL. M., Georgetown Univ. AGRICULTURE.	Herbert G. Ogden, Jr., M. B., Cornell University, LL. B., Georgetown University, LL. M., Georgetown University.
Charles McC. Chapman, LL. B., LL. M., Georgetown Univ. AGRICULTURE.	Charles W. Owen, LL. B., LL. M., Georgetown Univ. AGRICULTURE.
Howard A. Coombs, B. S., Worcester Polytechnic Insti- tute, 1890, LL. B., Georgetown University, 1890.	William W. Poultney, A. M., P. H. M., M. C. E., Ohio Univ. AGRICULTURE. LL. B., LL. M., National University, LL. M., Georgetown University.
Harry Coope, LL. B., LL. M., National University, Ohio.	Hervey Sheldon, LL. B., Northwestern University.
Faust Frank Crampton.	Henry E. Stauffer, LL. B., LL. M., Georgetown Univ. AGRICULTURE.
O. Ellery Edwards, Jr., B. S., LL. B., LL. M., Columbian University.	Erastus Dalson Telford, B. S., McKim College, LL. B., LL. M., Georgetown University.
Bertram G. Foster.	Albert Coulter Wells, LL. B., LL. M., Georgetown Univ. AGRICULTURE.
Samuel W. Foster, LL. B., LL. M., National University.	Herbert Wright, M. F., Lehigh University, LL. B., LL. M., Georgetown Univ. AGRICULTURE.
George T. May, Jr., LL. B., Georgetown University, LL. B., National University.	
Alfred Keane Moe.	

Bachelor of Laws

John H. Ballinger.	Allen T. C. Gordon.
Fred H. Barclay.	William A. Greene.
W. E. Bennett.	Walter A. Greer.
Don Platt Blackwood.	Henry A. Gunderson.
John Boyle, Jr.	Wilfred Hearn.
William S. Broughton.	John K. Hench.
Ph. B., UNIVERSITY OF CHICAGO.	Samuel Herriek.
Frederick W. Browne.	William Hinton Holloway.
Osmond Fairworth Byron.	Marcus Clarence Hopkins.
J. Mentor Caldwell.	R. S. Hopkins.
Robert Martin Calfee.	William W. J. Howard.
A. B., ROMEO COLLEGE.	Joseph William Howell.
Edward K. Campbell.	Martin Charles Huggett.
Lyman K. Chambers.	Henry Eohn Jones.
Reed Paige Clark.	Fred'k Corning Kingsbury.
A. M., COLUMBIAN UNIVERSITY.	A. B., CHAFFIN COLLEGE.
Lewis Colfax Conwell.	Samuel S. Lewis.
Joseph Winston Cox.	Edward Stanley Long.
William Harbin Davies.	Edwin Osborne Loucks.
Arthur J. Dodge.	Frank Aldrich Lucas.
Osgood H. Dowell.	William B. Matthews, Jr.
Ph. B., YALE UNIVERSITY.	Howard McCormick.
Livingston Porter Dryden.	Thomas S. Merrill.
John Gurney Dudley.	Edward S. Moores.
George Russell Duncan.	Ralph Norpell.
Burton Haines Esterly.	Culbert Levy Olson.
B. S., UNIVERSITY OF WISCONSIN.	Edward N. Pagelsen.
M. S., COLUMBIAN UNIVERSITY.	Bramard Warner Parker.
Frank P. Evans.	B. A., YALE UNIVERSITY, 1898.
S. Colfax Ferguson.	Ralph L. Peck.
Samford C. Fullilove.	Ph. D., UNIVERSITY OF CHICAGO.
A. B., CONTERARY COLLEGE.	Arthur G. Plant.
Herman Charles Gauss.	Walter Preston Plumley.
Louis Goldberg.	

Alfred Waters Proctor.	William Miller Smith.
Frank E. Radensleben.	Will Eugene Soult.
Harry D. Reed.	Edwin Ellis Spear.
William A. Reid.	A. B. Bowdoin College.
William Parker Remond.	Robert Allan Stephens.
Frank N. Renaud.	James D. Talbott.
Charles Francis Phelps Richardson.	Roy Warner Tallman.
A. M. COLUMBIAN UNIVERSITY, 1900.	A. B. UNIVERSITY OF MICHIGAN.
Harris Porter Richardson.	Robert Tipton.
David Milton Roberts.	Charles Adelbert Veeber.
B. A. UNIVERSITY OF WISCONSIN.	Luther M. Walter.
Augustus P. Schell.	Thomas J. Wingfield.
Homer A. A. Smith.	Julian S. Wooster.
Ph. B. UNIVERSITY OF CHICAGO.	Henry C. Workman.
Robert Everett Smith.	B. S. COLUMBIAN UNIVERSITY.
	Robert E. Lee Yellott.

Doctor of Medicine.

John Franklin Atkinson.	Walter Hibbard Merrill.
Adolphus B. Bennett, Jr.	B. L.
Harry Lee Brown.	Samuel Jonathan Morris.
Thomas J. Wilson Brown.	Baxter Morton.
B. S.	A. B., B. S.
Clifton Power Clark.	W. E. Musgrave.
B. S., PH.D.	William Robert Perkins.
Henry Franklin Collins.	PH.D.
William Thornwall Davis.	John Matthew Pulliam.
William Russell Eastman.	PH.D.
PH. B.	Will Leroy Pyles.
Paul Lamar Freeman.	Doctrine Hugh Reed.
Thomas Sandford Dunaway	George Marshall Robinson.
Grasty.	Robert Lee Russell.
Herman E. Kittredge.	B. S.
Harry A. March.	Harry Wood Tobias.
B. S.	B. E.
James Widgery Marshall.	Clarence Clayton Walker.
E. L. Mason.	A. B.

Doctor of Dental Surgery.

John Robert de Farges.	Richard Gill Richardson.
Albert Luther Haselbarth.	Robert William Rule.
Charles Max Hasselbach.	Howard Freeman Smith.
James Taylor McClenahan.	John Henry Wesner.
Clinton Atwood Putnam.	

Doctor of Arts.

Horace Frost Ashford.	John Warren Matson.
Cecilia Franzoni.	Frances Howell Randolph.
Evelyn Estelle Knight.	Nathaniel E. Robinson, Jr.
Sara Phebe Lynch.	Flora Warren Smith.
Charles Wellington Main.	Clarissa Brooks Tufts.

Bachelor of Science.

Florence Elizabeth Frisby.	Boynton McConnell Leach.
Charles Franklin Fuller.	Frances Sanders.
Eleanor Wilson Hance.	Carl Everett Whitney.

International Summer.

Ella May Ford.	Robert Edward Lee Newberne.
Bruce Cuthbert Getsinger.	Samuel Callaway Reat.

In Civil Engineering.

Arthur Waters Calver.

In Mechanical Engineering.

John Adger McCrary.	Edward Cyrus Thompson.
George Henry Swygert.	

In Chemistry.

Roger Green Smith.

In Architecture.

George Anton Didden.

GEOGRAPHICAL DISTRIBUTION OF UNIVERSITY STUDENTS.

Alabama.....	9	North Dakota.....	5
Alaska.....	1	Ohio.....	60
Arkansas.....	8	Okahoma.....	3
California.....	6	Oregon.....	4
Colorado.....	6	Pennsylvania.....	82
Connecticut.....	10	Philippine Islands.....	1
Delaware.....	3	Rhode Island.....	3
District of Columbia.....	353	South Carolina.....	12
Florida.....	6	South Dakota.....	3
Georgia.....	15	Tennessee.....	25
Idaho.....	10	Texas.....	23
Illinois.....	58	Utah.....	4
Indiana.....	41	Vermont.....	4
Indian Territory.....	2	Virginia.....	102
Iowa.....	22	Washington.....	3
Kansas.....	19	West Virginia.....	12
Kentucky.....	27	Wisconsin.....	35
Louisiana.....	8	Wyoming.....	1
Maine.....	17	Armenia.....	1
Maryland.....	88	China.....	1
Massachusetts.....	39	England.....	1
Michigan.....	37	Germany.....	4
Minnesota.....	24	Japan.....	4
Mississippi.....	15	Korea.....	1
Missouri.....	17	Mexico.....	1
Nebraska.....	7	Peru.....	1
Nevada.....	1	Russia.....	2
New Hampshire.....	8	Switzerland.....	1
New Jersey.....	11	Turkey.....	1
New York.....	81		
North Carolina.....	23	Total.....	1,372

GENERAL SUMMARY.

SESSION OF 1901-1902.

OFFICERS OF GOVERNMENT AND INSTRUCTION.

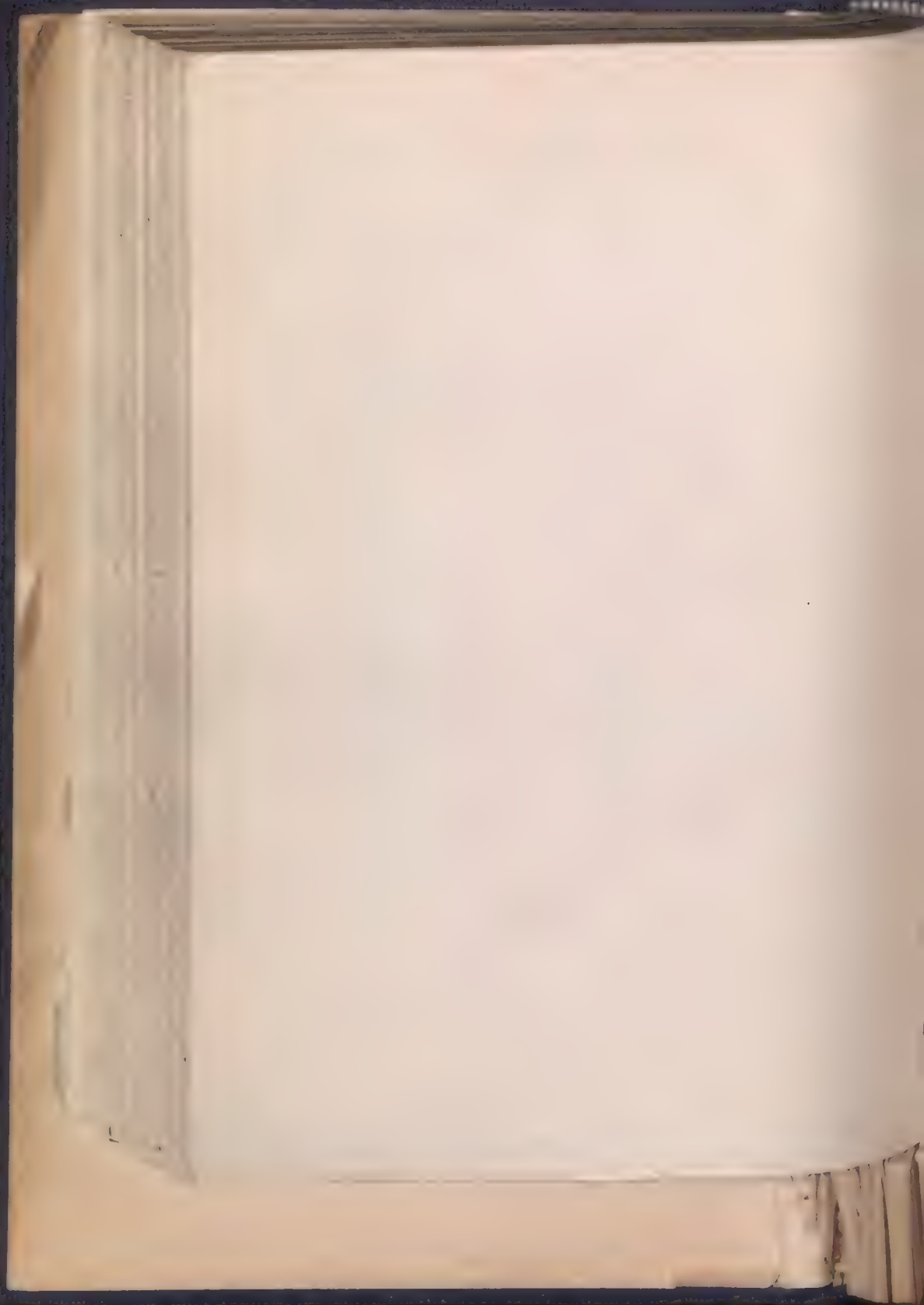
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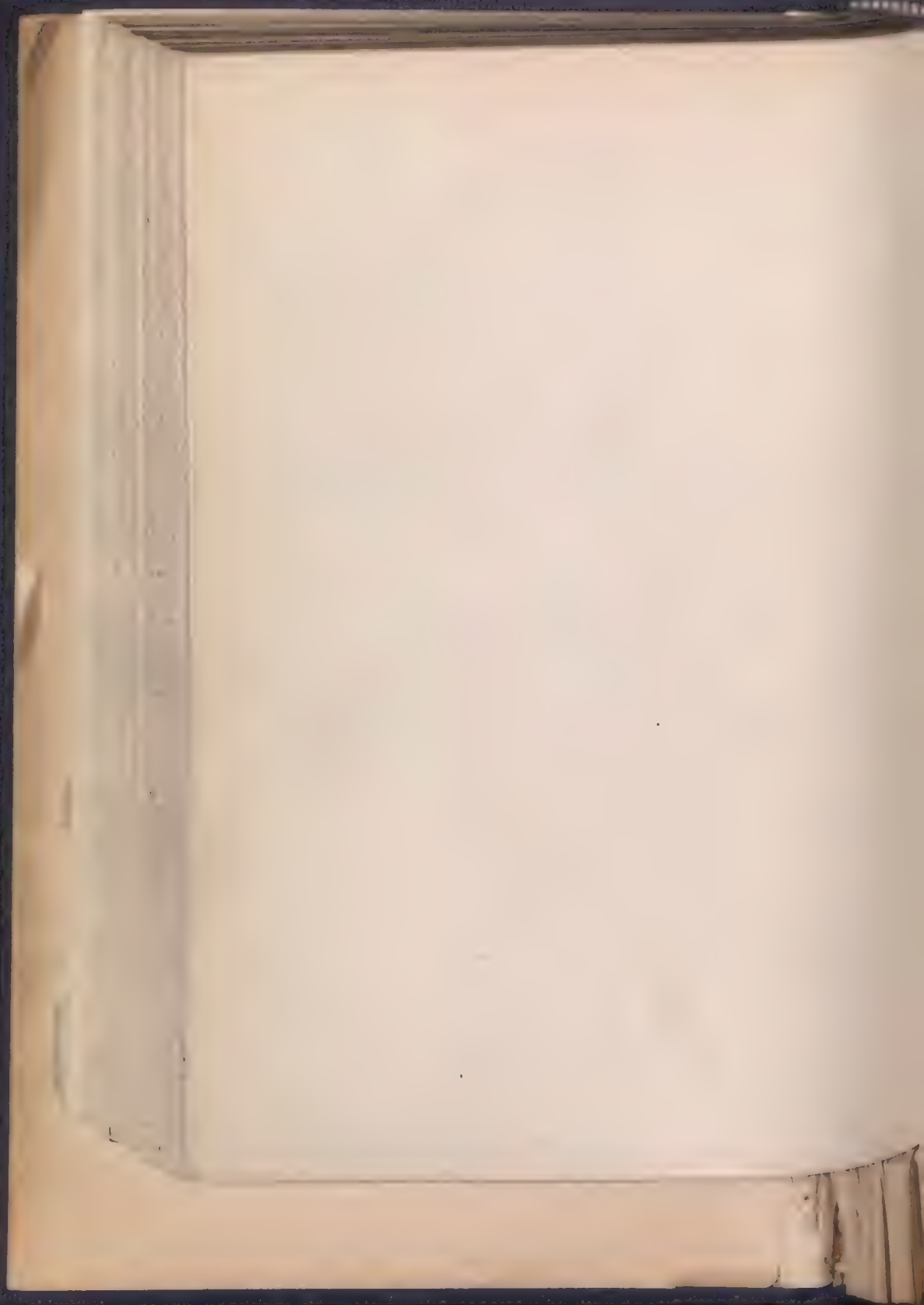
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PLAN AND ORDINANCE OF REORGANIZATION.

On the 13th of October 1902, the Board of Trustees of the **Columbian University** adopted an ordinance of reorganization of the educational forces of the University. This ordinance was a part of the President's annual report. The part of that report outlining the plan of reorganization is as follows :

" I desire to present to the Board at this time a new plan for the work and organization of the educational forces represented now in the three departments known as **Columbian College**, **Corecoran Scientific School**, and **School of Graduate Studies**. This plan, formulated as an ordinance to be adopted by this Board has been thoroughly discussed by the Faculty at three meetings held for the purpose, and the Faculty unanimously recommend the adoption of the ordinance by the Board. The features of this plan to which I wish to call attention are the following :

" The organization proposed will supplant the three departments last named and reorganize the work on the basis of subjects. In the place of schools with deans and faculties we shall have subjects, each with a head professor and assistant professors. The professors and assistant professors will be organized into two bodies—one the President's Council, consisting of the President and the head professors of university subjects and the deans of the professional schools, and the other, the University Council, consisting of the President, head professors, assistant professors, deans, and designated professors of the professional schools. The first will be the executive and the second the advisory body of the educational work of the University. This organization will bring all the professors together upon an equality, prevent the friction growing out of a division of interests represented now in several faculties and by divided leadership under different deans. It will unify the whole teaching force under one common leadership, and by this association increase the efficiency of the University as a whole and create a university spirit.

" The head professor is required to divide each subject into three sections : (1) A two-year general culture course ; (2) a three-year specialized course, and (3) a course for original research.

"The advantages of this division are that it will make the work of the student progressive from the time he enters the institution to the end of the original research section. He will not have to go over any of the ground twice, but will in the full course outlined cover the whole field of study and inquiry in a given subject. It will also give the student during his entire student life at the University the benefit of the best mind upon the subject, and this will strengthen the undergraduate work. It will give to those in the culture courses the advantage of all the science work. All students will be entered and listed in the catalogue as candidates for degrees, including under each degree the names of all candidates therefor in the University.

"The next important change is in the requirement for admission. It is proposed to admit the graduates of all approved high schools in the United States upon their certificates of graduation. Last year, according to the report of the Commissioner of Education, out of a total of 719,241 students in the secondary schools of the United States there were in the high schools of the United States 519,251 students. If we say to the graduates of the public high schools, 'We take you upon your certificate of graduation and begin our work for you where the high school leaves you,' we form a tie with these students which gives us the right to open communication with them, to send them our literature, and thereby attract them to us. If this be true, we are making for the University a constituency that is as wide as the United States and as real as that which exists between universities and private preparatory schools. In many of the States the high-school system has reached a high development. In the near future all the States of the Union will have excellent high-school systems. The public schools are dear to the hearts of the people, and this recognition of their work cannot but be regarded with favor. This feature is not entirely new except in the respect that it is national. The universities of Michigan, California, and Minnesota take students from the high schools of their respective States upon the same conditions. I may say, also, that this method of admission prevails now in this University with reference to the graduates of the High Schools of the District of Columbia. We are simply extending that idea to a broader field and endeavoring to make our University national in this respect. Students will be attracted to the national capital by reason of the facilities here. Being admitted upon certificate of graduation, they will find it easy to enter and begin work. The work of the high schools in fitting men for college and university life is of a high order, and it is conceded that much

work is done that in an earlier period was done only in the college course. The high schools give a systematic training which is disciplinary as well as cultural, and which I believe carries the student one year into the old college course—that is to say, the graduate of the best high schools today has culture and discipline of mind heretofore possessed by the college student at the end of his freshman year. This conclusion has been reached after very careful study of the situation and conference with some of the ablest educators in the country.

"The next important change is in granting the bachelor's degree at the end of three years, allowing the student in his third year to pursue as a part of his work a professional or specialized course. A few years ago a movement was started to provide a systematic and scientific teaching of professional studies. At that time courses in the professional schools extended over one or two years at most. These courses, added to the four-year college course, required the student to spend five or six years in preparation for a profession. The demands for better professional training made it necessary that the professional course should be enlarged and the work systematized. To lengthen the professional courses to three or four years without reducing the college course necessarily meant lengthening the student life to seven or eight years. From that time to this the controversy has been going on between the educators in specialized or professional work and the old institutions of learning in reference to the length of the college or general culture course. It has been insisted that the requirements of the present age make it necessary that a man devote at least three years in special study to prepare himself for a profession or calling, and that this work should be systematic, scientific, and thorough. For this reason it is insisted that this work should be recognized and the courses which are for general culture and for which the Bachelor of Arts degree is given should be shortened, so as not to compel the student to spend so much of his life in preparatory work.

"It will be observed that if the three-year general culture course prevails and three years specialization is added we still have six years of preparation before a man enters upon his life work, and if, as proposed in this ordinance, the student is allowed to combine in the third year these two courses it reduces the period to five years. The same length of time will be required of every man preparing for professional work as was required under the old system, the only difference being that a less amount of this time will be given to general culture and more of it to specialized work. The present method of teaching in the

professional and technical schools is disciplinary, and therefore I cannot believe that there will be any less of the higher education, either as to the time spent or value of the work. It is giving to the general culture work its fair proportion of the student's time. It elevates the professional degrees and makes it possible to raise the standard of admission to the professional schools and to require two years of purely cultural work in addition to that done in the high schools. This plan need not materially reduce the hours of class-room work for the bachelor's degree. Under the four-year course in the universities and colleges fifteen hours a week, on an average, is the time devoted to class-room work. Under this system the time can be increased to twenty hours per week without requiring too much of the student, thereby accomplishing as much class-room work in three years as is now required in four. Another very important fact that should be taken into consideration in passing upon this question is that it is admitted, and very much deplored, that the great body of students who graduate from our high schools pass directly to the professional and technical schools without taking any general culture course because they cannot afford so much time in preparation and they regard the specialized or professional studies as absolutely essential in obtaining any position in life. If by shortening the general culture course we can turn this tide, or part of it, and secure a broader culture for these men before they enter the professional schools, we shall have accomplished very much for them and for the nation. With Harvard, Columbia, Brown, and other universities leading, we need not hesitate to change to the three-year course for the bachelor's degree.

"The only remaining question, and the point upon which we should differ from the other institutions referred to, is that in the third year we propose to allow ten or twelve hours out of twenty required for the bachelor's degree to be taken in one of our professional schools. I call attention again to the fact that the work in the professional schools is now scientific, systematic work. I mean by that, teaching by the historical method and acquiring knowledge in a logical, systematic, and scientific way. I venture to say that the value of this training is as great for a student who has pursued two years of general culture work as any he can select. In fact, universities that exclude professional courses for the bachelor's degree teach many of the professional subjects—constitutional law, international law, elementary law, and others—by academic professors. The only difference will be that we shall teach the subjects through the agency of the technical professor. In all the professional and technical schools

the work of the academic professor is not credited to the student in his professional course, for the very good reason that it is not taught from the technical standpoint; it is simply and purely scientific, while in the best professional schools now the teaching is both scientific and technical, which, to my mind, is broader work. The work in the professional schools is therefore a proper credit to be allowed in the third year. The balance of the time required must be spent by the student in university subjects to be elected, making up the full twenty hours per week for three years for the bachelor's degree. If this plan is adopted, the graduate of the high school will see that by devoting two years more to purely general culture courses he can then enter upon his professional or specialized studies, and the time required of him in making a complete preparation for life work will be only five or six years, according to the profession chosen. He stands, therefore, where his grandfather stood, but with this advantage, that the general culture course has been broadened very much by including the natural sciences; that his professional training has become systematic and thorough; that the work is intensified and he has little time upon his hands. Comparing the work in former years with the present plan, I believe the result will be to produce men of equally strong and well disciplined minds, and greatly to increase the number of educated men in all the professions.

"I must not pass this point without calling your attention also to the fact that the two-year general culture course proposed here is to be prescribed by the University Council. This does not mean that every student must take exactly the same studies. It does mean, however, that in selecting the subjects for general culture the determining question shall not be what profession or calling the student proposes to follow, but studies will be selected and courses prescribed that will result in broad culture and will lay the foundation for specialized work. In most of the universities to-day electives are allowed from the very beginning. This permits a student to choose his calling and devote much time to studies fitting him for it. For illustration, in some of the institutions a man may elect a course in agriculture in his first year, and receive as much credit for it as for work done in languages or mathematics. This subject is important and it should be taught in the university, but it can hardly be claimed that it has the same disciplinary value as the other subjects referred to. Electives are allowed in most institutions for one-half of the entire four-year course. Brown University, however, in offering a degree at the end of three years has ad-

vanced its prescribed courses from twenty-eight (28) to thirty-four (34) hours out of sixty-three (63), recognizing the necessity in a shorter course of determining for the student in a greater degree what studies are disciplinary.

"In the plan proposed in this ordinance the educational expert determines for the student the range of his studies for two-thirds of his course for the bachelor's degree. The plan holds him to disciplinary and cultural studies for the first two years, and in the third year opens wide the door to electives and a profession. I am sure that this feature of the plan has some value. If a student is to be trained he must have a "trainer" who knows more than he does about the course. If there are studies that are of peculiar value in disciplining and culturing the mind, they are better known to the educational expert than to the student. When the student has obtained the broad culture that these studies give, the door may be opened wide and he may be permitted to choose his professional career and enter upon the course of study that will fit him for it.

"I need not stop to discuss the requirements for other degrees provided for in this ordinance. They do not vary materially from the requirements in the best institutions. I recommend, therefore, the adoption of this ordinance.

"In concluding this report, permit me to urge the most careful consideration of all subjects involving the growth and development of this institution, and fearless action in adopting those plans which meet the requirements of the present age. Let us not hesitate to "step up to the line" of forward movement and do the things that will accomplish the greatest good for the present and coming generations of men. Let us lay large plans. We ought to build at the national capital a splendid university, one that will attract students from every part of this Union because of the excellence of its work and the special advantages furnished by the governmental work-shops. There is no place that is in such direct and intimate connection and communication with every part of the United States, nor is there a place where an institution is more closely observed by the best representatives of all nations. The opportunity to do a large work is before us. It calls for united, heroic effort and a willingness to sink every personal and minor consideration for the general good and uplifting of the University.

"CHARLES W. NEEDHAM."

ORDINANCE ADOPTED BY THE BOARD OF TRUSTEES.

Be it ordained by the Board of Trustees of The Columbian University :

ARTICLE I.—*Division of Work.*

The educational work of the University shall be divided into four groups, as follows :

SECTION 1. General culture courses. The subjects of study in these courses shall be prescribed or approved by the University Council, with a view to the needs of graduates of the best high schools.

SECTION 2. Specialized courses in university subjects. These courses are designed to give a knowledge of the evolution and science of each subject and to fit the student for literary, professional, scientific, and industrial pursuits.

SECTION 3. Original research. This division is designed to promote original research and direct the efforts of students who desire the assistance of a master.

SECTION 4. Professional schools. At present there shall be schools of law, jurisprudence and diplomacy, medicine, and dentistry. Technical schools may be established, but at present work done in designated schools of this class shall be recognized by the University and proper credit given therefor.

ARTICLE II.—*University Subjects.*

SECTION 1. For convenience of statement these subjects are grouped under six general heads :

(1) Philosophy ; (2) Language, Linguistics, and Literature ; (3) Mathematics, pure and applied ; (4) Science, natural and physical ; (5) History and Political Science ; (6) Engineering and Architecture.

ARTICLE III.—*Admission.*

SECTION 1. Certificates of graduation from high schools designated by the University Council shall entitle the student to admission to the general culture courses without examination. Examinations based upon the foregoing requirement will be held under the supervision of the University Council to determine the fitness for admission of students who have attended private schools or otherwise prepared themselves for the University.

ARTICLE IV.—*Development of University Subjects.*

SECTION 1. Subjects shall be divided into three sections, as follows :

(1.) The fundamental section, covering two years' work ; this section to be assigned to students in the general culture courses.

(2.) The advanced section, not exceeding three years ; this section to be assigned to students specializing for literary, scientific, professional, or industrial pursuits.

(3.) The original-research section ; this section to be assigned to students pursuing a subject for discovery and broader culture.

ARTICLE V.—*Conduct of Work.*

SECTION 1. Each subject shall be under the control of a head professor, who shall outline the entire work in such subject, with the approval of the University Council, and who shall have the general charge of and be responsible for the instruction in the subject in each section. There shall be associate professors, lecturers, instructors, and assistants in each subject, to whom shall be assigned sections or parts of sections of the subject, and, in addition, fellows may be appointed to assist in giving instruction in the first section of the subject. The head professor, as chairman, and his associate professors shall constitute a committee of the University Council upon the subject to which they are assigned.

ARTICLE VI.—*Courses of Study.*

SECTION 1. General culture courses for the first two years of study for candidates for the degrees of Bachelor of Arts and Bachelor of Science shall be arranged by the University Council and printed each year in the bulletins of the University.

SECTION 2. The University Council shall determine the minimum hours of class-room work required in the three years for the bachelor's degree, which requirement shall be printed each year in the bulletins of the University in connection with the general culture courses. The scope of the general culture courses and the amount and standard of the work required in the three years shall be sufficiently high to make the degree equal in value to like degrees of other universities of the first rank in the United States.

SECTION 3. A student who has taken his bachelor's degree shall be entitled to credit for one year in his special or professional course, provided he has taken for a part of his third year for the bachelor's degree the first year's work in such special or professional course.

SECTION 4. The University Council shall also arrange courses of one year each to be the fourth year in university studies, leading to the degree of Master of Arts or Master of Science; and the University Council shall also arrange courses leading to degrees in engineering.

SECTION 5. The courses in the professional schools of the University shall remain as they are now prescribed by the Board of Trustees.

ARTICLE VII.—*Degrees.*

SECTION 1. The degree of Bachelor of Arts or of Bachelor of Science shall be conferred upon a student who has been regularly admitted and has satisfactorily performed the work and passed the examinations required in the general culture course of two years, and who has performed the work and passed the examinations in one year of specialized work approved by the University Council.

SECTION 2. The degree of Master of Arts or Master of Science shall be conferred upon a student who has performed the work and passed the examinations of the fourth year of university studies, as above provided.

SECTION 3. A degree in engineering shall be conferred upon a student who has performed the work and passed the examinations prescribed by the University Council for such degree.

SECTION 4. The degree of Doctor of Philosophy shall be conferred upon a student who, after the attainment of the master's degree, shall perform not less than two years' additional work in university subjects, to be prescribed or approved by the University Council, including the preparation of a satisfactory thesis upon a subject approved by the University Council, according to regulations prescribed by said council.

SECTION 5. The honorary degrees of Doctor of Divinity and Doctor of Laws shall be granted only for specific achievement in such fields as scholarship, discovery, or administration, and after the report by the University Council.

SECTION 6. Upon the approval of the University Council, students from other universities and colleges may have credit for work done in such universities or colleges in which they have passed successful examinations.

SECTION 7. In determining the right of a student to any degree the University Council shall consider the general character of the student and his conduct during his university course.

SECTION 8. No degree shall be conferred upon a student unless he has done at least one year of his work for such degree in residence at this University.

ARTICLE VIII.—*Organization of Educational Force.*

SECTION 1. The Schools of Law, Jurisprudence and Diplomacy, Medicine, and Dentistry shall continue their faculty organizations, and the dean of each faculty and such professors as shall be designated by the University Council shall be members of the University Council, and the deans shall also be members of the President's Council.

SECTION 2. The President's Council shall consist of the President, head professors of university subjects, and the deans. This Council shall be the executive body, and shall perform the duties herein conferred upon it and such as may be hereafter conferred upon it by the Board of Trustees, and may make recommendations to the Board of Trustees in reference to the educational work.

SECTION 3. The University Council shall consist of the President, professors, associate professors in the university subjects, deans, and the designated professors in the professional schools. This shall be the Advisory Council, and shall perform such duties as are devolved upon it by this statute and may be hereafter conferred upon it by the Board of Trustees, and may make recommendations in reference to the educational work to the President's Council and the Board of Trustees.

SECTION 4. The President's Council shall meet on the first Saturday after the first Monday in each month of the school year, and the University Council shall hold three regular meetings during the school year, on the Saturdays immediately preceding the stated meetings of the Board of Trustees. Special meetings of either council may be called by the President at any time for the consideration of special matters designated in the call. Notice of special meetings shall be given in writing to each member of the council called two days before the day on which the special meeting is to be held.

SECTION 5. The President shall preside at all meetings of each council unless unable to be present, in which event the professor present senior in years of service in the University shall preside.

SECTION 6. Each council shall elect a secretary and keep a

record of its proceedings, which shall be open to inspection by each member of the council and each member of the Board of Trustees.

SECTION 7. Each council shall provide rules of procedure not inconsistent with the general statutes of the Board of Trustees.

SECTION 8. The professors and associate professors of each university subject and the dean and professors from each professional school shall be a sub-committee of the University Council upon such subjects or schools, and shall, when requested by the University Council, make specific report upon the method of teaching and the scope and divisions of the subjects for advice and action thereon by the University Council.

ARTICLE IX.—*Effect of this Statute.*

SECTION 1. The two councils herein provided for shall be organized and begin work immediately, and all other provisions in this statute shall be put into operation as rapidly as can be done without serious injury to the work now being conducted. The Executive Committee of the Board of Trustees, acting with the advice of the University Council, shall determine all questions arising under this section.

UNIVERSITY COUNCIL.

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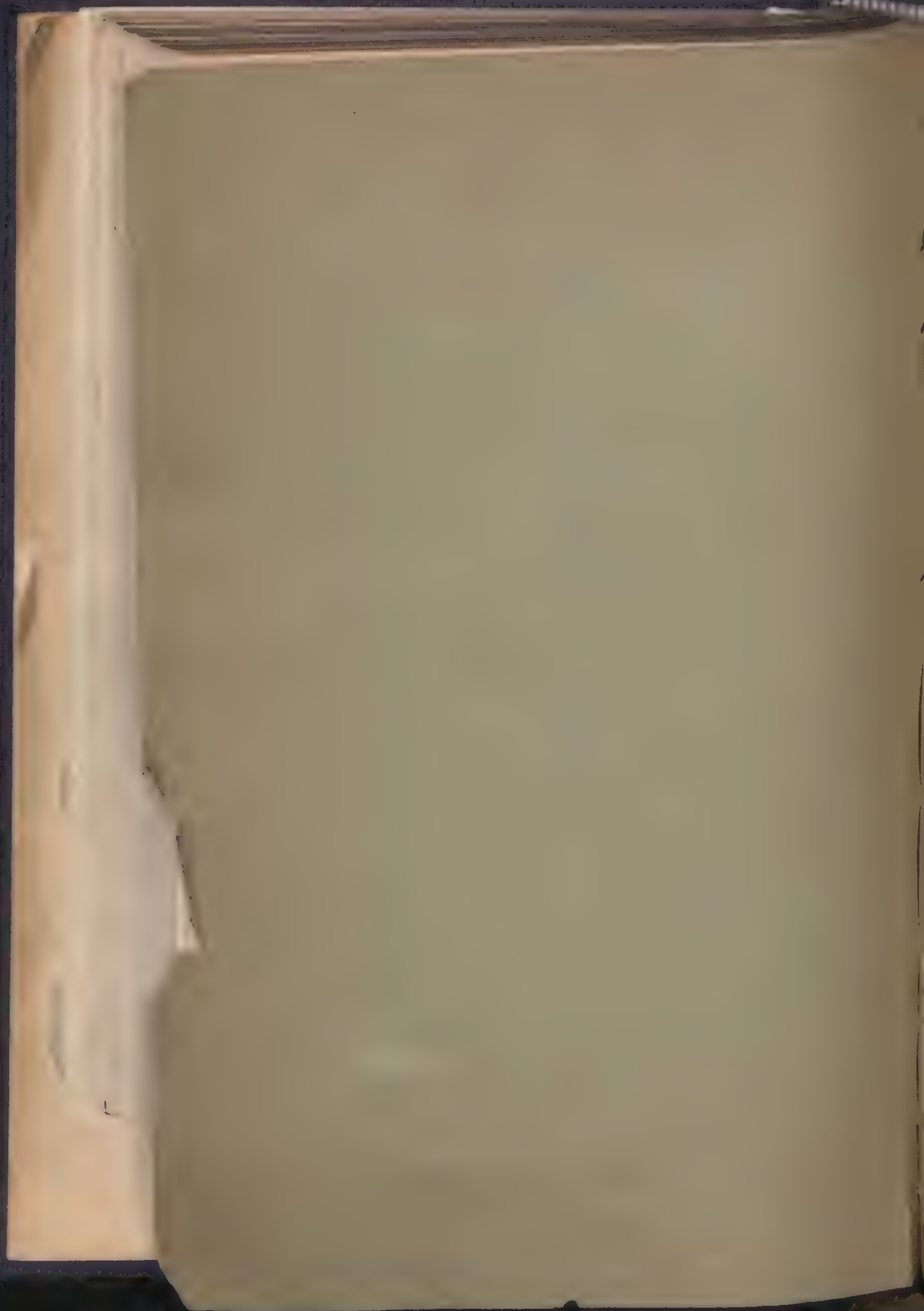
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THE COLUMBIAN UNIVERSITY
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ANNUAL REPORT
OF THE
PRESIDENT
FOR THE
ACADEMIC YEAR 1901-1902
AND AN
ORDINANCE ADOPTED BY THE BOARD
OF TRUSTEES



WASHINGTON, D. C.
J. P. J. & C. F. WELCH, PRINTERS

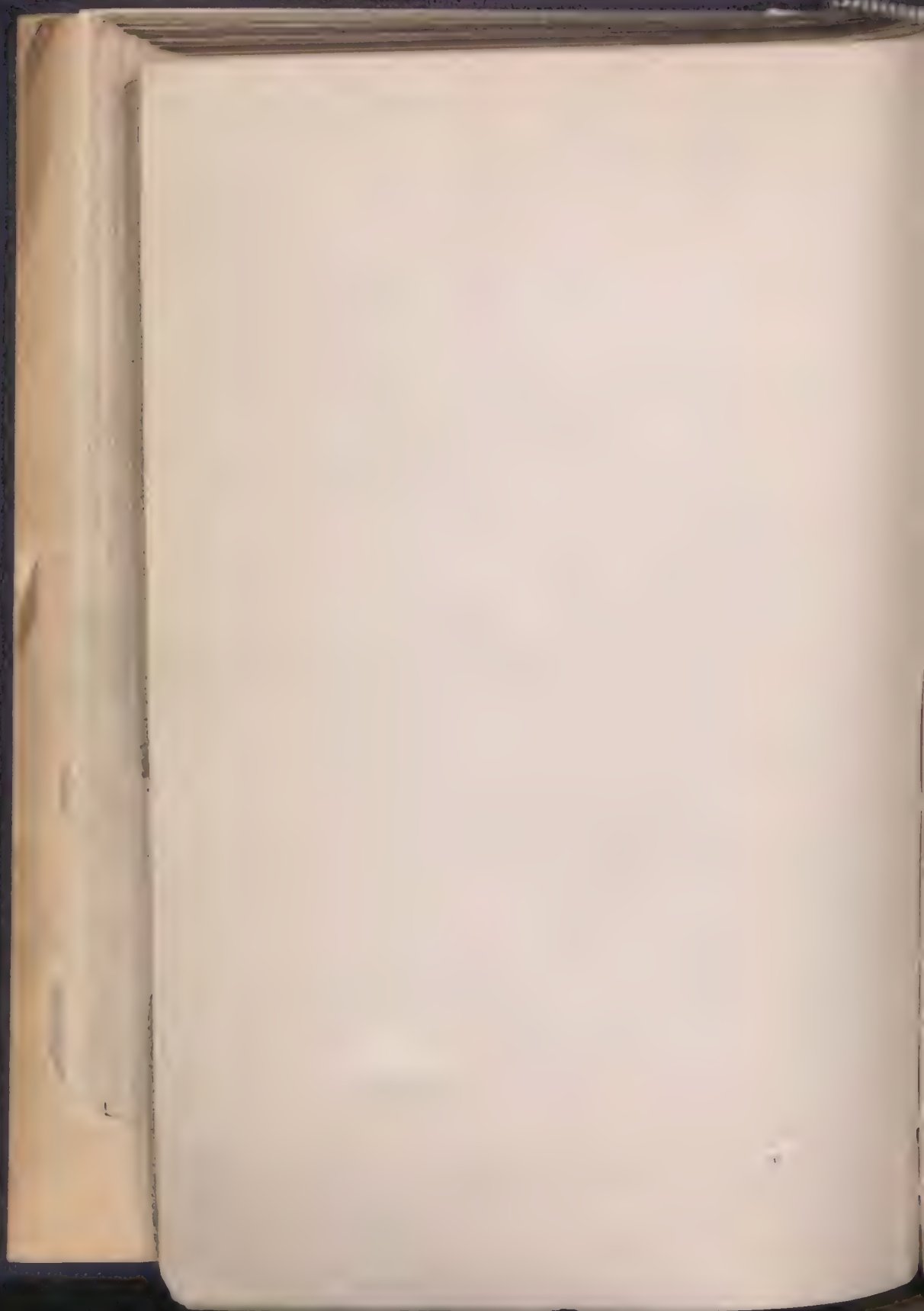
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PRESIDENT'S ANNUAL REPORT.

To the Board of Trustees, The Columbian University.

GENTLEMEN: I have the honor to submit my report for the academic year 1901-'02.

1. The Board of Trustees.—Three trustees of the University have passed away during the last year.

Mr. William H. McKnew, a resident of Washington, died April 6, 1902. He was a man of peculiarly fine temperament and character; a business man engaged in commercial pursuits, and in all of his activities maintaining a high sense of honor, an unwavering integrity, and leaving behind him an untarnished reputation. His service upon the Board was always marked by a sincere devotion to the best interests of the University and a willingness at all times to serve in every position assigned him by his associates. His death is a loss we deeply feel, but his memory will always be a delightful possession.

General Thomas J. Morgan, of New York, died July 13, 1902. He lived a notable career. In the volunteer army of the United States he displayed that readiness for new service, that courage, fidelity, and loyalty peculiar to the best and truest Americans, and received that recognition which is the highest, perhaps we may say the only, reward of the soldier. For some years he served the United States in a public office where he displayed and maintained that same courage and fidelity in following his convictions as to the policy he believed best adapted to the highest development of a race that is fast passing away and which is dependent upon the Federal Government for care, education, and protection. Dr. Morgan at different periods of his life served many public and benevolent institutions with conspicuous ability. In all of these positions he showed a splendid equipment of mind and heart, a remarkable executive ability, and an unflinching loyalty to the cause he served. His interest in this University was deep and sincere. A few days before his death he dictated a letter to his wife, addressed to me, which I received on the

day he died, declaring his deep interest in the growth and development of the University, and expressing the hope that upon his recovery (which he then had reason to expect) he would be able to aid in the advancement and the upbuilding of the University. I am sure that our institution has been honored by having General Morgan one of its distinguished trustees.

Major John W. Powell, of Washington, died September 23, 1902. Major Powell was also a brave and gallant soldier, and won for himself distinction in the military service of the United States. He will, however, be known longest and best by his services to the cause of science. He had been identified with the scientific work of the Government since 1865, and he occupied a place in the foremost rank of the geologists and anthropologists of the world. He was president of the Anthropological Society of Washington and of the American Association for the Advancement of Science; he was an author and lecturer of reputation upon scientific subjects, and his connection with the University added to the dignity and reputation of the institution wherever the fact of his relation with us was known. He was deeply interested in our work and in the welfare of the institution. In the last interview I had with him, which was before my election to this position, he was very earnest in expressing his desire that the University should take a high position at the national capital. He felt that this ought to be a great University, doing special work in the natural and political sciences, and exercising an influence upon the development of the country through its graduates. He commented especially upon the fact that our graduates go into nearly every State in the Union, and that a larger, and therefore a stronger, faculty would exercise a potential influence in molding public opinion upon the great questions of politics and administration. In the death of Major Powell the Board has lost a true friend, a member especially competent to advise upon certain great lines of university work, and one whose worth in the scientific field of knowledge can not be too highly esteemed.

There are now three vacancies in the Board of Trustees. At this time we should make every effort to secure the ablest men to fill these places: men whose counsel in the administration of the University and whose influence in advancing all new plans and work will be of the greatest value. I venture to

express the hope that these vacancies may be filled very soon and the strength and influence of the Board thereby augmented.

Permit me to congratulate you upon the present organization of the Board. It has been the subject of comment that the offices of the Board are filled by men eminently fitted for the places to which they have been chosen; whose counsel and guidance all will be glad to follow, and whose personal influence will contribute to the substantial growth and reputation of the University.

2. **Finances.**—The financial condition of the University is fully set forth in the Treasurer's report, which has been printed for distribution. We have two classes of property—*(a)* that devoted to educational purposes, and *(b)* that which is not devoted to educational purposes, but which is held as an investment.

(a.) The first class consists of the property at the corner of H and Fifteenth Streets, upon which is located University Hall and Law Lecture Hall, and the Medical School and Hospital property on H Street between Thirteenth and Fourteenth Streets.

The first property, having upon it University Hall and Law Lecture Hall, contains 20,175 square feet of ground, and it is fairly valued at \$500,000.

The Medical School and Hospital property has a frontage of 194½ feet on H Street, and contains 24,526 square feet. With the new buildings completed, this property is valued at \$300,000. All of these properties are covered with a blanket incumbrance, which, when the buildings are entirely paid for under the present contracts, will amount to \$300,000, drawing interest at 4.4 per cent. Deducting the incumbrance, the equity in the properties held for educational purposes is \$400,000. As it may be desirable in the future to sell one of these properties without disposing of the other, I recommend that an agreement be made with the Fidelity Trust Company of Philadelphia dividing this loan between the two properties.

(b.) The property not held for educational purposes is of two classes, viz., improved and productive, and unimproved and non productive.

In the first class, the Cutler house, 222 Third Street, is valued at \$25,000, and should produce a gross income of \$900 a year. The house 203 M Street is valued at \$7,910.57, the amount for

which it was bought in at the trustees' sale. It produces a gross income of \$600 per year. The Powell house, 1707 I Street, is valued at \$40,000, and produces a gross income of \$1,800 a year.

These properties are unincumbered. The income from the Powell house is devoted to a special purpose, viz., "the free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy, at Annapolis, Maryland, or such as may fit them to become mates or masters in the merchant marine service of the United States, and of such apprentices as, having filled their time in the great steam manufactory establishments of the country, may apply for appointment from civil life in the steam-engineering department of the United States Navy."

The most valuable piece of productive property is the office building on Fifth Street, known as "The Columbian Building," valued at \$200,000. The gross income per annum from this building is \$46,553.29. The expenses connected with its care and rental amount to \$7,753.70, leaving a net rental of \$8,799.59. This property represents the Corcoran Endowment Fund. It is unincumbered of record, but upon the books of the University there is carried against it a charge for money borrowed to complete the building, and which the University has failed in part to realize from assets belonging to that fund. Before this building was erected and before the fund was impaired the Corcoran Endowment Fund amounted to \$178,166.13. I recommend that we discontinue the charge upon the books against this property and leave it in all respects free and clear, representing Mr. W. W. Corcoran's splendid gift to the University.

The unproductive property of the University consists of vacant lots, all of which have a total valuation of \$46,354.65, or about twenty-five cents per square foot. This property is near the heart of the city, in line of prospective improvements, and must rapidly increase in value when these improvements are made.

We have bonds, loans, and cash assets amounting to \$25,275, making a total, including all classes of property, real and personal, of \$1,141,540.22. There is also property in furniture, libraries, laboratory equipment, fixtures, etc., which has not

been scheduled or appraised, but which represents a considerable holding. This should be carefully inventoried and valued.

In addition to the real estate indebtedness referred to, we are indebted to the National Metropolitan Bank in the sum of \$4,252.50, which is carried to pay for perpetual insurance upon our buildings. It need not be regarded as an indebtedness requiring full payment. If we should discontinue the insurance, ninety per cent. of the money deposited with the insurance companies would be returned, so that the actual liability would only be ten per cent. of the above amount. There is a floating debt amounting September 1, 1932, to \$10,767.76.

Our income from all sources (estimating the income from tuition the same as last year, which I think is conservative) will amount to \$81,000 the present year. The expenditures upon the present basis for all purposes will during this year amount, approximately, to \$96,000. This will leave a deficit of \$15,000, which, added to the present deficit, will make a total of \$25,767.76. This must be provided for during the year.

In addition to the Corcoran Fund there are certain special funds held by the University, represented in the assets above mentioned, as follows:

The Mary Lowell Stone Scholarship Fund	\$2,000
A memorial fund, the income of which is to be paid to needy women students in the Corcoran Scientific School.	
The Elton Prize Fund	5,000
Founded by the Rev. Romeo Elton, from which is provided two medals annually.	
The Kendall Scholarship Fund	4,875
Founded by the Hon. Ames Kendall, the income from which is to be used to provide scholarships in the College.	
The Willie E. Fitch Prize Fund	1,200
Founded by James E. Fitch, Esq., the income of which is used for a prize in the department of Chemistry.	
The Cutter Prize Fund	1,000
The income of which is given annually as a prize for excellence in the study of English.	

The Walsh Prize Fund	8,300
From the income of which a gold medal is to be provided for the best essay in Irish history.	
The Carter Scholarships	5,000
Founded by Mrs. Mary M. Carter, the income of which is to be used as scholarships for deserving students in preparing for the civil engineering profession.	
The Davis Prize Fund	1,000
Founded by the Hon. Isaac Davis, from the income of which two gold prizes are annually awarded for excellence in composition and elocution.	
The Farnham Fund	1,000
The Carter Fund	1,000

The Farnham and Carter Funds are represented by Chesapeake and Ohio Canal bonds. These bonds are valueless, and I recommend that the funds be made good out of other securities now held and not otherwise appropriated.

We can not overestimate the importance to the reputation and credit of the University of having each endowment or gift carefully invested and accounted for. President Eliot, of Harvard, in a report to the board of that institution, said: "A reputation for scrupulous fidelity to all trusts is the most precious possession of the corporation. That safe, the college might lose everything else and yet survive; that lost beyond repair, and the days of the college would be numbered."

If Columbian University is to become the recipient of large contributions, it must establish upon a firm foundation a reputation of keeping every trust fund carefully invested and sacredly appropriated to the uses to which it is devoted by the donor. I recommend that the trust funds be invested only in such investments as are recognized by judicial authority as proper and such as will relieve a trustee from all personal liability.

3. The Educational Work.—The work of the University is now divided into seven departments—the Columbian College, the Corcoran Scientific School, the School of Graduate Studies, the Medical School, the Dental School, the Law School, and the

School of Comparative Jurisprudence and Diplomacy,—and in all we have about fourteen hundred students.

The Columbian College. The work of the College is carried on by a faculty composed of excellent men, without a dean and without very close association of the men engaged in the work. If time or space permitted, I should be glad to make special mention of some of the splendid work of many of the College professors. There is excellent work done in our College, but there is lack of unity, and that means always a want of college atmosphere and spirit. The work needs enlarging on the side of the natural sciences, in order to compare favorably with other institutions. The College must have a library, laboratories, and dormitories, and such an organization as will bring the professors together in close touch and thereby create in the faculty and student body a college spirit. The want of this cooperation and spirit is a matter of common observation.

To obtain the buildings we must have a new site for the University. Upon this question I may be permitted to say that I think the new site should be in the city. Our work must be largely graduate and professional work, and such work must be done within easy reach of the public and departmental libraries, museums, and collections contained in public buildings. We must be at the heart of things. Our buildings should be grouped together, adjoining some large, open park, where light, air, and recreation may be had in abundance. Such a site can now be obtained at a very reasonable price; ground enough for large growth and a splendid future. I recommend that this subject be referred to the Executive Committee with power to select a site and to purchase one as soon as funds are available for the purpose.

The Corcoran Scientific School.—This school is doing practically the work of a college; it is undergraduate work for those who can come to the class room only at special hours and who give only a part of their time to the work. At present it is a night school. There is in the requirements for admission a variance between that school and the College and some difference in the work, although the degrees granted are the same and they are granted by the University. All students who enter the University for a degree should be admitted upon a

uniform standard; otherwise we are justly subject to criticism. Night schools, however worthy the object may be, do not appeal to men who have large means to give for the endowment of educational work. This feeling is met in every interview I have had with men upon the subject of endowment. I do not think that work should be discontinued, nor should the class from which this student body is drawn be neglected. They are among the very best students. They are men and women of mature minds, of serious purpose, and many of them will reflect great credit upon the institution.

I recommend that all the educational work conducted by members of the faculty in this department be changed from the evening hours to the hours between 4 and 6.30 p. m.; that the libraries, laboratories, and drafting rooms be kept open until 10 o'clock p. m., and that competent instructors or tutors be provided to direct students in the use of these facilities. Today the students of the Concoran Scientific School can not feel themselves really a part of the body of College students. If the hours were changed as suggested and the classes consolidated, the students devoting part of their time would associate with the students giving their whole time to the work in the afternoon hours. The difference in the two classes of students would be only this, that the class giving the whole day to the work would be able to complete the course for the bachelor's degree in a shorter period of time than the other. The requirements for admission should be uniform and the courses of instruction alike, the difference being that those who can give only half the time to the work must take double the years to earn a degree. This they can afford to do if permitted to pursue their studies while maintaining themselves in a departmental position. I would not discourage this body of students. I would encourage them by placing them in the same rank with those who are giving their whole time to the work and aid them in every way possible by instructors during evening hours; but let us raise the standard of the University by making all the work done by members of the faculty strictly day work—that is, between the hours of 9 a. m. and 6.30 p. m.

The School of Graduate Studies.—This school was organized in 1892, and has done excellent work, as is shown by the very able report of Dean Munroe. This is also in part a night school,

and what has been said with reference to the Corcoran Scientific School applies with equal force to the School of Graduate Studies; I therefore recommend that this work be exclusively day work—that is, work done between the hours of 9 a. m. and 6:30 p. m. The greatest increase in the work of universities in the future will be in graduate studies. The cultural work will increase, but there will be the greatest growth and development along what may be called specialized work—that is, work done by men in fitting themselves for special occupations. No man today can enter any profession, trade, or calling without special preparation. After he has obtained for himself that broad culture which is furnished by the preparatory school and the college, he must specialize for a period of three or four years. The demands of the professions, of trade and industry, of literature and art, require that a man shall have a technical knowledge of the history and evolution of the science or profession which he proposes to follow or be rejected as a man without the necessary training for the higher positions. This is graduate work and must be done by the University, and it is along this line that there will be the greatest demand for University training in the future.

It is recognized that there are special lines of educational work that can be carried on with special advantage in the city of Washington because of the facilities afforded by the Government to every student in every institution. The Carnegie Institution has been established and founded with the view to original research work, much of which will be carried on in Washington. If as a University we can take up the lines of work that can be most successfully carried on in Washington, and can equip the University with the proper professors and facilities to do this work, there is no reason why the University should not have a large and splendid growth. There must be in charge of each subject taught a trained master, devoting his whole time to the work, with proper facilities for carrying it on, and the work must be done in such a way and at such time as to command the highest respect in the educational world.

Passing these schools for the moment, I will refer very briefly to the professional schools and then discuss a new plan for the organization of the University work.

The Medical and Dental Schools.—The number of students in these two schools is increasing. The new building is not quite completed, but part of it is now occupied by classes, and it is expected that the whole building will be completed by the first of November. The addition to the Hospital is progressing favorably and will be ready for occupancy by the middle of November, or not later than the first of December. We are congratulated on every hand upon the appearance and fitness of these buildings for the purposes intended. I believe that the growth and development of our Medical and Dental Schools are assured, both as to numbers and the quality of the work done. We have good men in the faculties of these schools, and they are enthusiastic in their devotion to the work. With the facilities now offered in the new buildings, I believe that there is a splendid future for the Medical and Dental Schools.

The Law School.—This school opens with a satisfactory registration. The applications which have been approved for new students amount, in all classes, to 165. As these students enter at the new rate of tuition, it gives promise that our income from this school will be in advance of what it was last year. With the students in the second and third years we shall have over 400 students.

The School of Comparative Jurisprudence and Diplomacy.—This is a graduate school in jurisprudence and diplomacy. The registration at this date indicates that there will be more students than last year, and the growth of this new school is assured. It meets a decided need, and this city is, above all others, the place for this work.

I am pleased to report the appointment of the Hon. Hannis Taylor, LL. D., to the chair of Constitutional History and Common Law of England and of International Private Law, for which he is splendidly fitted and equipped. His connection will add to the reputation and efficiency of the school. We now have a complete course in English and American constitutional law.

4. New Plan.—I desire to present to the Board at this time a new plan for the work and organization of the educational forces represented now in the three departments known as

Columbian College, Corcoran Scientific School, and School of Graduate Studies. This plan, formulated as an ordinance to be adopted by this Board, has been thoroughly discussed by the faculty at three meetings held for the purpose, and the faculty unanimously recommend the adoption of the ordinance by the Board. The features of this plan to which I wish to call attention are the following:

The organization proposed will supplant the three departments last named and reorganize the work on the basis of subjects. In the place of schools with deans and faculties we shall have subjects, each with a head professor and assistant professors. The professors and assistant professors will be organized into two bodies—one, the President's Council, consisting of the President and the head professors of university subjects and the deans of the professional schools, and the other, the University Council, consisting of the President, head professors, assistant professors, deans and designated professors of the professional schools. The first will be the executive and the second the advisory body of the educational work of the University. This organization will bring all the professors together upon an equality, prevent the friction growing out of a division of interests represented now in several faculties and by divided leadership under different deans. It will unify the whole teaching force under one common leadership, and by this association increase the efficiency of the University as a whole and create a university spirit.

The head professor is required to divide each subject into three sections: (1) A two-year general culture course; (2) a three-year specialized course, and (3) a course for original research.

The advantages of this division are that it will make the work of the student progressive from the time he enters the institution to the end of the original research section. He will not have to go over any of the ground twice, but will in the full course outlined cover the whole field of study and inquiry in a given subject. It will also give the student during his entire student life at the University the benefit of the best mind upon the subject, and this will strengthen the under-graduate work. It will give to those in the culture courses the advantage of all the science work. All students will be entered and listed in the catalogue as candidates for degrees, including under each degree the names of all candidates therefor in the University.

The next important change is in the requirement for admission. It is proposed to admit the graduates of all approved high schools in the United States upon their certificates of graduation. Last year, according to the report of the Commissioner of Education, out of a total of 719,241 students in the secondary schools of the United States there were in the high schools of the United States 519,251 students. If we say to the graduates of the public high schools, "We take you upon your certificate of graduation and begin our work for you where the high school leaves you," we form a tie with these students which gives us the right to open communication with them, to send them our literature, and thereby attract them to us. If this be true, we are making for the University a constituency that is as wide as the United States and as real as that which exists between universities and private preparatory schools. In many of the States the high-school system has reached a high development. In the near future all the States of the Union will have excellent high-school systems. The public schools are dear to the hearts of the people, and this recognition of their work can not but be regarded with favor. This feature is not entirely new except in the respect that it is national. The universities of Michigan, California, and Minnesota take students from the high schools of their respective States upon the same conditions. I may say, also, that this method of admission prevails now in this University with reference to the graduates of the high schools of the District of Columbia. We are simply extending that idea to a broader field and endeavoring to make our University national in this respect. Students will be attracted to the national capital by reason of the facilities here. Being admitted upon certificate of graduation, they will find it easy to enter and begin work. The work of the high schools in fitting men for college and university life is of a high order, and it is conceded that much work is done that in an earlier period was only done in the college course. The high schools give a systematic training which is disciplinary as well as cultural, and which I believe carries the student one year into the old college course—that is to say, the graduate of the best high schools today has culture and discipline of mind heretofore possessed by the college student at the end of his freshman year. This conclusion has been

reached after very careful study of the situation and conference with some of the ablest educators in the country.

The next important change is in granting of the degree of bachelor of arts at the end of three years, allowing the student in his third year to pursue as a part of his work a professional or specialized course. A few years ago a movement was started to provide a systematic and scientific teaching of professional studies. At that time courses in the professional schools extended over one or two years at most. These courses, added to the four-year college course, required the student to spend five or six years in preparation for a profession. The demands for better professional training made it necessary that the professional course should be enlarged and the work systematized. To lengthen the professional courses to three or four years without reducing the college course necessarily meant lengthening the student life to seven or eight years. From that time to this the controversy has been going on between the educators in specialized or professional work and the old institutions of learning in reference to the length of the college or general-culture course. It has been insisted that the requirements of the present age make it necessary that a man devote at least three years in special study to prepare himself for a profession or calling, and that this work should be systematic, scientific, and thorough. For this reason it is insisted that this work should be recognized and the courses which are for general culture and for which the bachelor of arts degree is given should be shortened, so as not to compel the student to spend so much of his life in preparatory work.

It will be observed that if the three-year general culture course prevails and three years specialization is added we still have six years of preparation before a man enters upon his life work, and if, as proposed in this ordinance, the student is allowed to combine in the third year these two courses it reduces the period to five years. The same length of time will be required of every man preparing for professional work as was required under the old system, the only difference being that a less amount of this time will be given to general culture and more of it to specialized work. The present method of teaching in the professional and technical schools is disciplinary, and therefore I can not believe that there will be any less of the higher education, either as to the time spent or value of the work. It is giving

to the general-culture work its fair proportion of the student's time. It elevates the professional degrees and makes it possible to raise the standard of admission to the professional schools and to require two years of purely cultural work in addition to that done in the high schools. This plan need not materially reduce the hours of class-room work for the bachelor of arts degree. Under the four year course in the universities and colleges fifteen hours a week, on an average, is the time devoted to class room work. Under this system the time can be increased to twenty hours per week without requiring too much of the student, and thereby accomplish as much class-room work in three years as is required in four. Another very important fact that should be taken into consideration in passing upon this question is that it is admitted, and very much deplored, that the great body of students who graduate from our high schools pass directly to the professional and technical schools without taking any general-culture course because they can not afford so much time in preparation and they regard the specialized or professional studies as absolutely essential in obtaining any position in life. If by shortening the general-culture course we can turn this tide, or part of it, and secure a broader culture for these men before they enter the professional schools, we shall have accomplished very much for them and for the nation. With Harvard, Columbia, Brown, and other universities leading, we need not hesitate to change to the three year course for the bachelor of arts degree.

The only remaining question, and the point upon which we should differ from the other institutions referred to, is that in the third year we propose to allow ten or twelve hours out of twenty required for the bachelor's degree to be taken in one of our professional schools. I call attention again to the fact that the work in the professional schools is now scientific, systematic work: I mean by that, teaching by the historical method and acquiring knowledge in a logical, systematic, and scientific way. I venture to say that the value of this training is as great for a student who has pursued two years of general-culture work as any he can select. In fact, universities that exclude professional courses for the bachelor's degree teach many of the professional subjects—constitutional law, international law, elementary law, and others—by academic professors; the only difference will be that we shall teach the subjects through the agency of the tech-

nical professor. In all the professional and technical schools the work of the academic professor is not credited to the student in his professional course, for the very good reason that it is not taught from the technical standpoint: it is simply and purely scientific, while in the best professional schools now the teaching is both scientific and technical, which, to my mind, is broader work. I say, therefore, that the work in the professional schools is a proper credit to be allowed in the third year. The balance of the time required must be spent by the student in university subjects to be elected, making up the full twenty hours per week for three years for the bachelor of arts degree. If this plan is adopted, the graduate of the high school will see that by devoting two years more to purely general-culture courses he can then enter upon his professional or specialized studies, and the time required of him in making a complete preparation for life work will be only five or six years, according to the profession chosen. He stands, therefore, where his grandfather stood, but with this advantage, that the general-culture course has been broadened very much by including the natural sciences; that his professional training has become systematic and thorough; that the work is intensified and he has little time upon his hands. Comparing the work in former years with the present plan, I believe the result will be to produce men of equally strong and well disciplined minds, and greatly to increase the number of educated men in all the professions.

I must not pass this point without calling your attention also to the fact that the two-year general-culture course proposed here is to be prescribed by the University Council. This does not mean that every student must take exactly the same studies. It does mean, however, that in selecting the subjects for general culture the determining question shall not be what profession or calling the student proposes to follow, but studies will be selected and courses prescribed that will result in broad culture and will lay the foundation for specialized work. In most of the universities today electives are allowed from the very beginning. This permits a student to choose his calling and devote much time to studies fitting him for it. For illustration, in some of the institutions a man may elect a course in agriculture in his first year, and receive as much credit for it as for work done in languages or mathematics. This subject is important

and it should be taught in the university, but it can hardly be claimed that it has the same disciplinary value as the other subjects referred to. Electives are allowed in most institutions for one-half of the entire four-year course. Brown University, however, in offering a degree at the end of three years has advanced its prescribed courses from twenty-eight (28) to thirty-four (34) hours out of sixty-three (63), recognizing the necessity in a shorter course of determining for the student in a greater degree what studies are disciplinary.

In the plan proposed in this ordinance the educational expert determines for the student the range of his studies for two-thirds of his course for the bachelor of arts degree. The plan holds him to disciplinary and cultural studies for the first two years, and in the third year opens wide the door to electives and a profession. I am sure that this feature of the plan has some value. If a student is to be trained he must have a "trainer" who knows more than he does about the course. If there are studies that are of peculiar value in disciplining and culturing the mind, they are better known to the educational expert than to the student. When the student has obtained the broad culture that these studies give, the door may be opened wide and he may be permitted to choose his professional career and enter upon the course of study that will fit him for it.

I need not stop to discuss the requirements for other degrees provided for in this ordinance. They do not vary materially from the requirements in the best institutions. I recommend, therefore, the adoption of this ordinance.

In concluding this report, permit me to urge the most careful consideration of all subjects involving the growth and development of this institution, and fearless action in adopting those plans which meet the requirement of the present age. Let us not hesitate to "step up to the line" of forward movement and do the things that will accomplish the greatest good for the present and coming generations of men. Let us lay large plans. We ought to build at the national capital a splendid university, one that will attract students from every part of this Union because of the excellence of its work and the special advantages furnished by the governmental workshops. There is no place that is in such direct and intimate connection and communication with every part of the United States, nor is there a place where an institution is more closely observed by the best repre-

sentatives of all nations. The opportunity to do a large work is before us. It calls for united, heroic effort and a willingness to sink every personal and minor consideration for the general good and uplift of the University.

CHARLES W. NEEDHAM.

ORDINANCE ADOPTED BY THE BOARD OF TRUSTEES.

Be it ordained by the Board of Trustees of The Columbian University :

ARTICLE I.—*Division of Work.*

The educational work of the University shall be divided into four groups, as follows :

SECTION 1. General culture courses. The subjects of study in these courses shall be prescribed or approved by the University Council, with a view to the needs of graduates of the best high schools.

SECTION 2. Specialized courses in university subjects. These courses are designed to give a knowledge of the evolution and science of each subject and to fit the student for literary, professional, scientific, and industrial pursuits.

SECTION 3. Original research. This division is designed to promote original research and direct the efforts of students who desire the assistance of a master.

SECTION 4. Professional schools. At present there shall be schools of law, jurisprudence and diplomacy, medicine, and dentistry. Technical schools may be established, but at present work done in designated schools of this class shall be recognized by the University and proper credit given therefor.

ARTICLE II.—*University Subjects.*

SECTION 1. For convenience of statement these subjects are grouped under six general heads :

(1) Philosophy ; (2) Language, Linguistics, and Literature ; (3) Mathematics, pure and applied ; (4) Science, natural and physical ; (5) History and Political Science ; (6) Engineering and Architecture.

ARTICLE III.—*Admission.*

SECTION 1. Certificates of graduation from high schools designated by the University Council shall entitle the student to admission to the general culture courses without examination. Examinations based upon the foregoing requirement will be held under the supervision of the University Council to determine the fitness for admission of students who have attended private schools or otherwise prepared themselves for the University.

ARTICLE IV.—*Development of University Subjects.*

SECTION 1. Subjects shall be divided into three sections, as follows:

(1.) The fundamental section, covering two years' work; this section to be assigned to students in the general culture courses.

(2.) The advanced section, not exceeding three years; this section to be assigned to students specializing for literary, scientific, professional, or industrial pursuits.

(3.) The original research section; this section to be assigned to students pursuing a subject for discovery and broader culture.

ARTICLE V.—*Conduct of Work.*

SECTION 1. Each subject shall be under the control of a head professor, who shall outline the entire work in such subject, with the approval of the University Council, and who shall have the general charge of and be responsible for the instruction in the subject in each section. There shall be associate professors, lecturers, instructors, and assistants in each subject, to whom shall be assigned sections or parts of sections of the subject, and, in addition, fellows may be appointed to assist in giving instruction in the first section of the subject. The head professor, as chairman, and his associate professors shall constitute a committee of the University Council upon the subject to which they are assigned.

ARTICLE VI.—*Courses of Study.*

SECTION 1. General culture courses for the first two years of study for candidates for the degrees of Bachelor of Arts and

Bachelor of Science shall be arranged by the University Council and printed each year in the bulletins of the University.

SECTION 2. The University Council shall determine the minimum hours of class-room work required in the three years for the bachelor's degree, which requirement shall be printed each year in the bulletins of the University in connection with the general culture courses. The scope of the general culture courses and the amount and standard of the work required in the three years shall be sufficiently high to make the degree equal in value to like degrees of other universities of the first rank in the United States.

SECTION 3. A student who has taken his bachelor's degree shall be entitled to credit for one year in his special or professional course, provided he has taken for a part of his third year for the bachelor's degree the first year's work in such special or professional course.

SECTION 4. The University Council shall also arrange courses of one year each to be the fourth year in university studies, leading to the degree of Master of Arts or Master of Science; and the University Council shall also arrange courses leading to degrees in engineering.

SECTION 5. The courses in the professional schools of the university shall remain as they are now prescribed by the Board of Trustees.

ARTICLE VII.—Degrees.

SECTION 1. The degree of Bachelor of Arts or of Bachelor of Science shall be conferred upon a student who has been regularly admitted and has satisfactorily performed the work and passed the examinations required in the general culture course of two years, and who has performed the work and passed the examinations in one year of specialized work approved by the University Council.

SECTION 2. The degree of Master of Arts or Master of Science shall be conferred upon a student who has performed the work and passed the examinations of the fourth year of university studies, as above provided.

SECTION 3. A degree in engineering shall be conferred upon a student who has performed the work and passed the examinations prescribed by the University Council for such degree.

SECTION 4. The degree of Doctor of Philosophy shall be conferred upon a student who, after the attainment of the master's degree, shall perform not less than two years' additional work in university subjects, to be prescribed or approved by the University Council, including the preparation of a satisfactory thesis upon a subject approved by the University Council, according to regulations prescribed by said council.

SECTION 5. The honorary degrees of Doctor of Divinity and Doctor of Laws shall be granted only for specific achievement in such fields as scholarship, discovery, or administration, and after the report by the University Council.

SECTION 6. Upon the approval of the University Council, students from other universities and colleges may have credit for work done in such universities or colleges in which they have passed successful examinations.

SECTION 7. In determining the right of a student to any degree the University Council shall consider the general character of the student and his conduct during his university course.

SECTION 8. No degree shall be conferred upon a student unless he has done at least one year of his work for such degree in residence at this University.

ARTICLE VIII.—*Organization of Educational Force.*

SECTION 1. The Schools of Law, Jurisprudence and Diplomacy, Medicine, and Dentistry shall continue their faculty organizations, and the dean of each faculty and such professors as shall be designated by the University Council shall be members of the University Council, and the deans shall also be members of the President's Council.

SECTION 2. The President's Council shall consist of the President, head professors of university subjects, and the deans. This Council shall be the executive body, and shall perform the duties herein conferred upon it and such as may be hereafter conferred upon it by the Board of Trustees, and may make recommendations to the Board of Trustees in reference to the educational work.

SECTION 3. The University Council shall consist of the President, professors, associate professors in the university subjects, deans, and the designated professors in the professional schools. This shall be the advisory council, and shall perform such duties as are devolved upon it by this statute and may be here-

after conferred upon it by the Board of Trustees, and may make recommendations in reference to the educational work to the President's Council and the Board of Trustees.

SECTION 4. The President's Council shall meet on the first Saturday after the first Monday in each month of the school year, and the University Council shall hold three regular meetings during the school year, on the Saturdays immediately preceding the stated meetings of the Board of Trustees. Special meetings of either council may be called by the President at any time for the consideration of special matters designated in the call. Notice of special meetings shall be given in writing to each member of the council called two days before the day on which the special meeting is to be held.

SECTION 5. The President shall preside at all meetings of each council unless unable to be present, in which event the professor present senior in years of service in the University shall preside.

SECTION 6. Each council shall elect a secretary and keep a record of its proceedings, which shall be open to inspection by each member of the council and each member of the Board of Trustees.

SECTION 7. Each council shall provide rules of procedure not inconsistent with the general statutes of the Board of Trustees.

SECTION 8. The professors and associate professors of each university subject and the dean and professors from each professional school shall be a sub-committee of the University Council upon such subjects or schools, and shall, when requested by the University Council, make specific report upon the method of teaching and the scope and divisions of the subjects for advice and action thereon by the University Council.

ARTICLE IX.—*Effect of this Statute.*

SECTION 1. The two councils herein provided for shall be organized and begin work immediately, and all other provisions in this statute shall be put into operation as rapidly as can be done without serious injury to the work now being conducted. The Executive Committee of the Board of Trustees, acting with the advice of the University Council, shall determine all questions arising under this section.

THE COLUMBIAN UNIVERSITY.

ADDRESS BY PAUL BARTSCH, M. S.,

PROFESSOR OF ZOOLOGY.

At the Opening of the Corcoran Scientific School,
September 24, 1902.

It is my pleasure to speak to you this evening upon the educational advantages of Washington with special reference to the students of zoology.

Most colleges and universities nowadays set forth at length in their annual catalogues the special advantages their institution affords, and I was considerably surprised when I examined one from our University for the first time to find all this matter of advertising boiled down to two and one-half pages. It is true each line of those pages speaks volumes, but, like many other good books, it requires interpretation. I will therefore take the liberty to expand somewhat some of those statements.

Since deciding upon this topic for discussion I have examined the field superficially. You might place this word in the superlative degree, for to go into detail in all the branches of learning and examine the special advantages of each in this city would require much more time than has been at my disposal for the preparation of this address. If, therefore, I deal too much with one side, or rather a very small side, of this question, you will pardon me and will hope with me that all other phases of science and art may be equally well developed and accessible to the student.

One of the most important steps which has affected this and similar institutions of our city was the passing of the following joint resolution by Congress April 12, 1892:

"Whereas large collections illustrative of the various arts and sciences and facilitating literary and scientific research have

been accumulated by the action of Congress through a series of years at the national capital; and

"Whereas it was the original purpose of the Government thereby to promote research and the diffusion of knowledge and is now the settled policy and present practice of those charged with the care of these collections especially to encourage students who devote their time to the investigation and study of any branch of knowledge by allowing them all proper use thereof; and

"Whereas it is represented that the enumeration of these facilities and the formal statement of this policy will encourage the establishment and endowment of institutions of learning at the seat of Government and promote the work of education by attracting students to avail themselves of the advantages aforesaid under the direction of competent instructors: Therefore,

"Resolved, etc., That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia."

These Departments are:

The Department of Agriculture:

- The Bureau of Animal Industry.
- The Division of Agrastology.
- The Botanical Division.
- The Biological Survey.
- The Chemical Division.
- The Entomological Division.
- The Forestry Division.
- The Seed Division.
- The Soil Division.
- The Office of Statistics.
- The Division of Vegetable Pathology.
- The Pomological Division.

The Experimental Stations and grounds.
 The Office of Plant Industry.
 The Office of Public Road Inquiry.
 The Office of Foreign Markets.
 The Office of Seed and Plant Introduction.
 The Weather Bureau.
 The Agricultural Museum.

The Department of the Interior:

The Pension Office.
 The Census Office.
 The Bureau of Education.
 The General Land Office.
 The Railroad Commission.
 The Office of the Geological Survey.
 The Office of Indian Affairs.
 The Patent Office.

The Navy Department:

The Board of Inspection and Survey.
 The Board of Medical Examiners.
 The Bureau of Construction and Repair.
 The Bureau of Medicine and Surgery.
 The Bureau of Navigation.
 The Bureau of Ordnance.
 The Bureau of Steam Engineering.
 The Office of Supplies and Accounts.
 The Bureau of Yards and Docks.
 The Hydrographic Office.
 The Museum of Hygiene.
 The Office of the Nautical Almanac.
 The Naval Dispensary.
 The Naval Observatory.
 The Navy Yard.

The Treasury Department of the United States:

The Bureau of Engraving and Printing.
 The Office of the Coast and Geodetic Survey.
 The Immigration Commission.
 The Office of the Life-saving Service.
 The Light-house Board.

The Marine Hospital Service.
The Office of Steamboat Inspection.
The National Bank Redemption Agency.
The Bureau of Statistics.

The War Department:

The several military bureaus.
The Medical Museum.
The Arsenal.

The Smithsonian Institution.

The Astrophysical Observatory.
The Bureau of American Ethnology.
The Bureau of International Exchanges.
The National Museum, with its twenty-four departments.
The Zoological Park.

The Botanic Gardens.

The Commission of Fish and Fisheries.
The Department of Justice: Courts—District, Circuit, and Supreme.
The Government Hospital for the Insane.
The Government Printing Office.
The Library of Congress.
The National Deaf mute College.

Since then the same privileges have been granted to all schools and investigators.

These resolutions give the competent student almost the same privileges which he might enjoy were the collections property of our University.

A library without an equal in this country; collections far superior to anything this side of the Atlantic.

Let us, then, take a look at some of our collections and see what we have. If we visit the Smithsonian Institution and enter the chapel on the west end, we will at first glance imagine ourselves transported to some submarine place, for here are exhibited the various forms of invertebrates, excluding the insects, mostly marine, ranging in size from the tiny protozoan to the monstrous giant cuttle fish, all systematically arranged.

What a boon to the teacher of zoology, after having considered a central figure or generalized type of a group in its minutest detail with his class, to be able to take his students to a place

like this, where he will find carefully arranged representative series of organisms, embracing the chief modifications of the group, expressing their relationship and interrelationship so beautifully that a glance at them will at once drive home the many points which the lectures previously attended will have brought before them.

Here, for instance, we find excellent glass models of that tiny unicellular organism which is ever of interest to the biologist carefully—yes, wonderfully—blown, magnifying the amoeba, which is scarcely $\frac{1}{16}$ of an inch in diameter, to a size of several inches, but showing each detail just as you would be prepared to see it under the microscope. Not only do we find this simple organism of the protozoan phylum, but also models, most elaborate plates, and even a host of specimens themselves of other unicellular organisms, representing forms gradually more complex in organization, many having a wonderfully formed skeleton, which in many cases is marvelously beautiful.

Not only is what I said true of this phylum of single-celled animals, but of all the other groups.

Among the Coelenterates there is a magnificent display of those extremely delicate, transient forms, known to you perhaps as sea nettles, jelly-fishes, or medusae, whose preservation has only recently been made possible by the use of formaldehyde; and as for corals, why, the entire evening would scarcely suffice to give you an adequate idea of that assemblage of specimens which adorn the shelves.

Then you have the Echinoderms, those spine-armed fellows which you may know better as star-fishes, sea urchins, sand-dollars, sea cucumbers, and brittle stars or sea lilies.

In the same way I might point out feature after feature of the remaining phyla. Not only do we find systematic series of these creatures from all latitudes and seas, but we also note splendid models of the chief groups, showing the various stages through which each individual must pass in its life history from the egg to the perfect or complete adult—changes as profound as they are complex and of the greatest significance, simplest in the lowest forms, but becoming more and more complex as we ascend the scale of life.

As we leave the chapter and enter the court which connects this to the main hall we find ourselves amongst the insects, their work and their homes.

A huge collection; and we note again the same careful arrangement into natural groups, each with its popular descriptive label, telling one the chief characteristic of each family and genus, and in most cases even the prominent traits of the individual species and its status considered from an economic standpoint, all so pleasantly and interestingly told that I am certain those of you who will come to consider this part in your course will wish for more time than can be allotted to the work of this section.

The main hall is largely devoted to the birds, and this collection embraces a splendid series of North American individuals; even the Great Auk and the Labrador Duck, birds which once were fairly abundant, but which, through the agency of man, have become wholly exterminated, are here represented. Nor is this all; for there are foreign sections embracing the various other zoo-geographical realms, each showing its own peculiar avifauna.

If we continue our zoological researches to the National Museum, we will find one entire hall of the southeast range devoted to a collection of wonderfully life-like casts of fishes, reptiles, and amphibians, while another contains a mounted representative series of North American and foreign mammals. Then there is the hall of comparative anatomy, where we find splendidly prepared skeletons of all the vertebrate groups so nicely displayed that you can make comparison without difficulty of the structural elements of each.

Homologic series of structures representing the modifications of certain organs fill an entire range of cases and enable you to see at once the changes which they have undergone in the different individuals to fit them to the particular environment under which each is existing, while another part of the collection illustrates how profoundly changed even the skeletal structures may become when man enters the field and applies artificial selection. It is a hall full of problems of the deepest significance, for in these characters most of our classification finds its basis.

There are still other halls and courts in this great building of accumulated scientific wealth, the contents of some of which take us back to the dim dawn of things, to the days when life put in its first appearance upon this sphere; collections which

show us what this early life was and where it has been recorded. Still other specimens show what followed; and thus we find here, partly reconstructed, a minute plan of the fields in which are preserved the remains of the organisms which have flourished in the various ages from the Eozoic until the present day. Maps and charts show from where they came, while models, drawings, and careful labels help us to understand their detailed structure.

These collections are accessible to any one at any time from 9 a. m. to 4.30 p. m., and you may consult them to your heart's content.

The value of such an exhibit, considered from an educational standpoint, cannot be overestimated.

For a knowledge of biology acquired from the reading of books and hearing of lectures only must of necessity be a very imperfect one, since the science itself is primarily founded upon specimens, and the very best way to gain a knowledge of them is to see them and handle them.

It is absolutely essential, in order to get an understanding of the literature of a subject, that one first have some knowledge derived from the study of actual material. The more extensive the collection which one examines the more intimate one's knowledge may become. Word pictures will never fully replace the object which they are to represent.

These, then, are the exhibition series; but these series do not embrace the entire wealth of material housed within these two buildings, as for each specimen displayed a hundred—yes; many more—are carefully packed away from view in cases, and yet so arranged that if need be each one can readily be consulted. These are the collections over which the specialists and the advanced students are bending; these are the ones which furnish new links to the chain which the systematic naturalist is steadily forging; fact links gleaned from everywhere—the rocks of the bowels of the earth—from the mountain tops as well as from the abyssal depths of the ocean's floor.

A bit of inventory may not be amiss at this point, and I quote from a recent report the number of specimens in the various divisions.

Department of Anthropology:

Division of Ethnology.....	173,000
Division of Historic Archaeology.....	2,000
Division of Prehistoric Archaeology.....	356,000
Division of Technology—mechanical phases.....	31,000
Division of Graphic Arts.....	7,000
Division of Medicine.....	6,000
Division of Religions.....	2,000
Division of History and Biography.....	4,000
Division of Sematology.....	2,000
Division of Ceramics.....	4,000
Division of Photography.....	1,000
Division of Music.....	1,000

Department of Biology:

Division of Mammals.....	75,000
Division of Birds.....	129,000
Section of Birds' Eggs.....	62,000
Division of Reptiles and Batrachians.....	45,000
Division of Fishes.....	156,000
Division of Mollusks.....	922,000
Division of Insects.....	1,486,000
Division of Marine Invertebrates.....	306,000
Helminthological Collections.....	5,000
Division of Comparative Anatomy.....	15,000
Division of Plants (Nat. Herbarium).....	526,000
Section of Forestry.....	700

Department of Geology:

Division of Physical and Chemical Geology.....	75,000
Division of Mineralogy.....	35,000
Division of Stratigraphic Paleontology.....	441,000

Or a total approaching..... 6,000,000

We have thus considered two out of the many buildings which the Government has been kind enough to stock with material which is to furnish food for the mind and help us to gain an understanding of the fellow creatures with whom we share this earth.

There is yet another place which must not be overlooked in our consideration of the educational advantages as viewed from the field of the zoologist, and that is the Zoological Park, an institution which has made gigantic strides ever since its inauguration. Here splendid collections of live animals have been brought together from all quarters of the globe, and additional ones are continually arriving.

Here you may study their habits, traits, and characteristics, and thereby supply the data necessary to make your studies complete.

Besides this, you have the natural resources of this city and its vicinity, and I may say that they are at least as well developed as you will find them in any part of America.

The number of invertebrates which frequent our domain remains to be determined. We do not know the world which the microscope might reveal to the patient observer, but we do know that about a hundred different kinds of fishes inhabit our lakes and streams, some 57 batrachians and reptiles make their home with us, while the largest number of species fall to the avian kind, for almost 300 have been known to tarry at some time or other with us, but the indigenous mammals that have been known since the arrival of the white man is only forty.

You are thus provided with opportunities for study far greater than any other institution can offer you in any other part of this continent, for none has the easy access to such wealth of collected material.

Make use, therefore, of your opportunities; search the buildings, the books, the skies, the earth and its water, and glean from each its message and its facts and make them all your own, for they are yours whenever you choose to take them, and let your work be ever equal to the opportunities which you enjoy.

THE COLUMBIAN UNIVERSITY

Commemorative Exercises on the
Resignation of the

HONORABLE WALTER SMITH COX

As Dean and as a Member of the Faculty of the Law
School, held on Friday, February 14, 1902,
in University Hall.

Invocation by the Rev. Dr. Alexander Mackay-Smith

Address in Behalf of the University, by the
President, SAMUEL H. GREENE, D.D.

The organization and development of a great school is an event of more than ordinary interest and significance. Many and varied elements enter into its structure. Time, place, and environment are important factors. The scope of its work, the worth of its instructors, the quality of its governing board are vital elements in its life and growth. These considerations are especially emphasized when, without large endowment, progress is dependent on the capacity, the loyalty, and the courage of the few.

It has been generally true in the history of the past that great institutions have found their first dignity and influence, not in great endowments, but in great men; men whose breadth of culture, weight of character, and genius for instruction made them natural leaders—martyrs if need be—in the cause of

education. With such royal life Columbian University has been fortunately endowed from its very beginnings, and in no one of its schools more conspicuously than in that of law. Behind the instruction has stood the instructor, himself the embodiment of the dignity, honor, and prestige of his high profession.

We are here to honor one who, for twenty-eight years, has been conspicuous in this kind of service, both as Professor and Dean. Beginning with the school in its infancy he brought to its service ability, character, and enthusiasm, which has contributed no small share to the remarkable growth and reputation now enjoyed. In the dark and discouraging years of the past he never faltered, in the later and more prosperous he has never been wanting. We come to-night to lay our grateful acknowledgments at the feet of our distinguished colleague and friend, to congratulate him on a magnificent service rendered, and high honors fairly won.

When in coming days the impartial historian shall write the history of this great school I venture to predict that among the brightest names written on that scroll of honor, in the light of legal attainments, loyal efficiency, and exalted character, will be that of Walter Smith Cox. In this long and honorable service in connection with the law school of Columbian University, both as Professor and Dean, he has won our approval and admiration, and it gives me pleasure now in behalf of the governing board and the faculties of its several schools, to make this public and grateful acknowledgment. I believe that the great achievements of the past are to be more than balanced by those of the future, but I am sure that into that future we shall carry his name and his memory as a sacred and inspiring trust.

Address in Behalf of the Board of Trustees by
Professor WILLIAM F. MATTINGLY, LL.D.

This impresses me as an unusual occasion. The executive officers of the University, representatives of the faculties of its several schools, its alumni and friends, have assembled this evening to evidence their regret at the retirement of Judge Cox from active duties as a Professor in the School of Law, and by their words and presence to testify their respect, regard and affection for the man.

To me has been assigned the pleasant duty of representing, on this occasion, the Board of Trustees of the University.

The small public of the little world of this University has assembled this evening to honor, not the warrior, not the statesman, not the scientist, not the philanthropist, but the teacher of young men, a calling as high and noble as any, and one requiring the possession of peculiar qualifications for success.

Think of it for a moment. Here have been, year after year, large numbers of young men, entering upon the study of that great profession, the law. Ambitious, eager, earnest, they have desired to fit themselves for its practice. Success is not achieved in it without hard study and hard work. To teach it requires, on the part of the teacher, a love of it and his work; an appreciation of it as the science governing, controlling and protecting all human activities in the affairs of life; that he should be a devotee with bended knee at its altar; and besides all this, that he should also appreciate and fully enter into the feelings, hopes and fears of its novitiates, the students under his care; and further still, that he should be able to inspire them with a love

for their chosen profession, to encourage them in its study, to infuse into them a spirit of hopefulness of success, and to convince them that devotion to duty will surely meet with reward.

Such a teacher the Trustees feel was Prof. Walter S. Cox. Having won the universal respect, esteem and affectionate regard of the numerous students who have sat under his teaching during so many years, is evidence of the fact that he was such a teacher.

We honor him to-night, not for the success he has achieved, but for the possession of those qualities which have enabled him to achieve success. We respect and honor him as the possessor of that character that compels honor and respect. We recognize that the years of his long life, courageously and honestly devoted to culture and earnest labor in his profession as lawyer and judge and teacher of law, have built up that peculiar thing we call "character," which forces our admiration and respect.

And now, briefly, a few words about his life.

A college graduate and of the Harvard Law School, he was admitted to the bar of the late Circuit Court of this District in 1847. Having been a faithful and laborious student, he was well equipped to discharge the duties of his profession and in a short time was in the enjoyment of a large practice.

The law school of this University was organized in 1865. Walter S. Cox was persuaded by the Trustees to accept a Professorship in it in 1874. At that time it had 95 students. In 1875 the number increased to 130 and now it has over 400 enrolled. His appointment added to the standing of the school; and his reputation for learning and ability in his profession, and the possession of those peculiar qualifications which enter into the make-up of a successful teacher, have tended largely to make the school what it is to-day, one of the best, if not the best, law school in the country.

When in 1879 the opportunity came for the bar of this District to claim that a District lawyer should be placed upon the District bench, the bar, recognizing that Walter S. Cox possessed those qualifications which peculiarly qualified him for judicial position, instinctively and unanimously united upon him for the office. No other person was considered, and he was accordingly

ppointed Associate Justice of the Supreme Court of the District of Columbia.

Of his judicial career, my limited time will admit of my saying but little. Two years after his appointment on the bench he presided at the trial of Guiteau for the murder of President Garfield. That trial lasted over two months. The defence was insanity and that the court was without jurisdiction to try the case. Judge Cox's instructions to the jury as to the extent of mental incapacity which will relieve the defendant from legal responsibility for his act, sustained by the appellate court, has since been recognized by many jurisdictions throughout the country as the true rule upon this vexed subject. It was claimed that the court was without jurisdiction to try the case, because, while the fatal blow had been inflicted in this District, the death, an essential ingredient of the crime, took place in the State of New Jersey, and therefore the murder had not been done in this District. This question received the earnest consideration of the Judge, and his opinion upon it, sustaining the jurisdiction of the court, occupying twenty-two printed pages of the report of the trial, is a model indicative of great labor, learning, close reasoning and research.

I have alluded to this case because it occurred so soon after his appointment to the bench and because the patience, judicial ability and learning displayed by the court throughout the trial, brought into the strong light of the public view the noble characteristics of the Judge, which marked his entire service upon the bench.

In brief, Cox, as judge, came up to Bacon's standard of what judges ought to be and do and not do. Says that quaint and able philosopher, but bad judge :

"Judges ought to remember that their office is *jus dicere* not *jus dare* - to interpret law and not to make law, or give law.

"Judges ought to be more learned than witty, more reserved than plausible, and more advised than confident.

"Patience and gravity of hearing is an essential part of justice, and an overspeaking judge is no well-tuned cymbal.

"It is no grace to a judge first to find that which he might

have heard in due time from the bar, or to show quickness of conceit in cutting off evidence too short, or to prevent information by questions, though pertinent."

In conclusion, I voice the hopes, wishes and belief of the Trustees, as of all others who know Judge Cox, that he will enjoy for many years yet to come, as did Cato of old, "age that has laid its foundation in youth."

Address in Behalf of the Faculty of the Law
School by
Professor WILLIAM A. MAURY, LL.D.

Having been associated with Judge Cox in the Law Faculty for a longer time than any other member, my colleagues have thought proper to assign me the honor of representing them on this occasion, which, it is gratifying to know, is a testimonial of the whole University to the character and services of Judge Cox. Certainly nothing short of a general tribute of this kind would be an adequate recognition of the fruits of his long and faithful labors in the Law School; for if anything is true, it is that through the great number of graduates who have been scattered over the country from that school, year after year, the names of the University and the School have both been taken up in the circulation of the national life, as it were, and carried to the remotest parts of the land. Certainly I have never visited a distant point, and I have visited a good many, that I did not find at least one or two Alumni always eager for news of Judge Cox and of their beloved *Alma Mater*.

Looking at the Law School in its present developed and expanded state, reaching out in all directions for the philosophy and spirit of the laws, and drinking from the fountain of Roman Jurisprudence, we should not forget that the advanced position it now holds would not have been possible but for the good work of Judge Cox in laying its foundations deep in the general confidence. When I became associated with him, we constituted the Faculty, and he was literally the School; and the reputation he had earned for it, far and wide, was better than any money endowment, being something that dollars and cents could not buy.

The hold that Judge Cox undoubtedly had on the students

who flocked to hear his lectures was due to qualities as an instructor, which he possessed to an eminent degree. I refer to his thoroughness and accuracy in elementary knowledge, and to his never-failing gentleness and patience, which I have seen many times sorely tried. It happens too frequently with teachers of Judge Cox's learning and profundity, that they are lame and impotent as instructors, in the midst of ample resources, which seem to have the effect of rendering them insensible to the wants of those seeking knowledge; but Judge Cox's career shows that he had a great faculty for teaching, in combination with a vigorous and well-stored mind. To pursue the subject a moment further, I think it may be said, that in the generality of cases the best teachers are those who have only a respectable acquaintance with their subject, but who have also the art of imparting what they know and of stimulating the interest of their pupils. But, before leaving our friend as a teacher, I must not omit some allusion to the fact that he always had on hand a rare collection of professional jokes, which he used discreetly in the lecture-room, and in a way that often reminded me of what Horace tells us of the kindly disposed school teachers at Rome, who distributed cakes, occasionally, among their pupils, for the purpose of encouraging them to apply themselves to the rudiments of knowledge. And no doubt what I have just said has reminded many of you already of the unique and entertaining way in which the Judge used to open, year after year, the sessions of the Law School.

Looking back over the long period of my association with Judge Cox, it is a satisfaction to me to know that nothing ever occurred to disturb our pleasant relations in all that time; indeed, I may say that it was hardly possible to find a more agreeable associate than the Judge.

There is a remarkable combination of gentleness and strength in Judge Cox's character, and I am sure that those around me who knew him as a judge on the bench will bear me out in the remark, that he measured quite up to the Horatian standard of the upright and resolute man, who can not be shaken from his purpose by the clamor of the multitude. I never knew a man more devoid of the little arts and assiduities which are so often

employed for the purpose of attracting popularity. Indeed, his disposition through life has been so unobtrusive, that the prominence he has had before the community has been, without a single exception, of the kind which follows, and not of the kind which is run after; and there is a lesson in his life which every young man may well keep in mind, and that is, "that the only certain method to have a good reputation is to deserve it."

The world-famed philosopher, jurist and moralist of England spoke for every enlightened calling when he said that every lawyer was "a debtor to his profession"; a sentiment which has followed the name of its author everywhere, and which, it seems to me manifest, was a principle of action with our friend, Judge Cox; for, as a practitioner at the bar, his conduct did much to enhance respect for the legal profession in the public estimation; as a judge on the bench, his contributions to jurisprudence were considerable; as a professor of law, he has set in motion influences which are operating all over the country for good, and which will never cease to operate. In addition to all this, when he retired from the bench he immediately addressed himself to the important work of preparing a code for the community which had honored him and which he honors. Clearly, then, he has more than repaid the debt which he owed his profession.

When I came to the bar,—I won't say how long ago,—Judge Cox was well established there, and was thoroughly appreciated as a counsellor and practitioner. As might be supposed, he never appeared in court in connection with any controversy of a sensational character, with the exception of the somewhat remarkable episode in his career when he went before the Military Commission as counsel for O'Laughlin and Arnold, charged as members of the conspiracy to assassinate President Lincoln and other high functionaries of the United States. The defense he made of these men was thorough in point of law and in point of fact, and exhibits a determination to perform his full duty as counsel, regardless of the intense feeling all over the country against his clients. In defending these men, he occupied very much the same position before the public as John Adams did when he acted as counsel for the British soldiers who had shot down his

own fellow citizens in Boston, and who were indicted for murder in consequence. Little did our friend suppose, when he was thus engaged, that he himself would live to preside over the trial of a presidential assassin!

His arguments at the bar were direct and well considered, and without any attempt at embellishment; and yet, at the same time, there were instances where he displayed so much ability, such thorough preparation, such fertility of resource and such tenacity, that I think the success he achieved may be termed brilliant. I have in mind at this moment a series of ejectment suits brought for the recovery of valuable parcels of land in this city. The property involved was, in many cases, extensively improved, and occupied by persons who supposed themselves to be the true and absolute proprietors. Of course, many of the best men at our bar were employed to defend these suits, and Mr. Cox met them all single-handed, and overcame them, one after the other, in a number of well and stubbornly conducted contests. These cases made an impression on me, as a young man, which will never be effaced.

When Judge Cox retired from the bench, a large meeting of the bar was held to express their sense of the loss the whole community had suffered in consequence. On that occasion there was a very intelligent and satisfactory review of his labors as judge.

But, as I am not before an assemblage of lawyers, I must take care to touch lightly on this part of my subject, remarking, in the first instance, that he laid down the law touching the criminal responsibility of the insane so satisfactorily on the trial of the assassin Guiteau, that his views have received general acceptance, and, throughout that protracted proceeding, showed that nothing could shake him from his purpose to give the accused the protection of every guaranty to which he was entitled under the Constitution and the laws.

When the case of *Shoemaker v. The United States* came before the Supreme Court on an appeal from a decision rendered by Judge Cox, that Court found his discussion of the important questions in the case so complete, and so satisfactory, that they

declined to consider them further, at the same time adopting as part of their judgment his opinion, word for word (147 U. S., 307); an exalted compliment of which any judge might be proud.

Nature stamped our friend for a judge. He is judicial through and through, and we discover no alloy of partisanship in his composition. All his life he has occupied "the vantage ground of truth" and breathed the clear, serene air of philosophy, lifted, for the most part, above the rivalries and contentions which it is the lot of most of us to encounter. Indeed I may say, by way of completing the picture of Judge Cox's character, that Lord Bacon must have had some such life as the Judge's in view when he uttered the sentiment that it was "heaven upon earth" when a man's mind moved in charity, rested in Providence, and turned upon the poles of truth.

Looking back over this long, useful, and blameless life, which is unrolled before us like a scroll this evening, I see nothing alarming in the reflection of Carlyle, that the earthly influence of every individual man which has had a commencement will never, through all ages, have an end.

Yes, my hearers, our dear and honored friend has laid down his burden and loosened his hold on the activities of life to enjoy, in return, the consolation and the tranquility of mind which can alone proceed from the consciousness of duty performed, and to indulge, with greater freedom from interruption, in those meditations which are congenial to the intellect trained in philosophy, and which beautify and prepare it for the blessed consummation of the just man made perfect.

Address in Behalf of the Alumni Association by CHAPIN BROWN, A.B., LL.B.

The graduates of Columbian stand in a different relation to Judge Cox than do the members of the Faculties and Board of Trustees. We stand in the relation of student to teacher as children to their parent,—their *Alma Mater*. Although it is usually said that children should be seen and not heard, we have thought that this occasion justifies an expression of our sentiments. In order to appreciate fully these sentiments it is necessary that we consider for a moment the conditions under which Judge Cox assumed the position of teacher in Columbian. His life work has been performed at the Capital of the Nation, and to Washingtonians, Washington City is the modern Athens of the world. Here is located one of the greatest educational plants ever established anywhere. The Smithsonian Institution, the Congressional Library, the Army and Navy Museum, the National Observatory, the Halls of Congress, the United States Supreme Court, the United States Patent Office, the Agricultural Department, all institutions of a National character, but free to those who may desire to avail themselves of their use and many advantages; and in addition to these, we have the Washington City Public Library, the Corcoran Gallery of Art, our own Columbian University, and the many other honored and renowned institutions of learning of the National Capital—all of which furnish to students for investigation into any branch of learning a working educational plant certainly not surpassed, and probably not equaled, at any other seat of learning in this country.

This fact and this idea have been recognized and acted upon by the greatest thinkers of our country. Our great Washington anticipated this idea when he suggested and attempted to pro-

vide for the establishment, in the city named in his honor, of such a national institution of learning as we may now hope to realize by the generosity of the great philanthropist, our adopted citizen, Andrew Carnegie.

While it is necessary that we should have our school-house, our laboratories, our books and our libraries, yet it is the teacher alone who makes them available to the student and fixes the character and standing of an institution of learning. No other personage in any of the various walks of life, to my mind, can compare with the teacher in usefulness or importance. We are indebted to him for almost everything that we possess in a worldly sense, both physical and mental. We are indebted to him for the physical comforts and luxuries of this enlightened twentieth century, as well as for the many means of mental and spiritual enjoyment which it is our privilege to possess.

To this important profession of teaching, the one in whose honor we have assembled to-night, Walter Smith Cox was called. Himself the son of an eminent lawyer of his day, Clement Cox, he was by inheritance, so to speak, as well as by thorough study and long practice and especially by disposition, peculiarly fitted and qualified as a teacher in his chosen profession of the law. Time will not permit me on this occasion to refer to any particular incidents of his life, but as we stand here to-night and look back over the long and faithful work of Judge Cox, we feel that it would be impossible for his life-work, so far accomplished, to have been more useful or beneficial to the community than he himself has made it. As a practitioner at the bar, his services to his clients and to the court were so recognized that he became the unanimous choice, as Mr. Mattingly has said, not only of the bar but also of the whole community, for the high and honorable position of Justice of the Supreme Court of this District. As a judge, his decisions were always respected for their wisdom and their exact fairness, and while upon the bench he was engaged in trials of national importance and world-wide renown.

From his long experience, both at the bar and on the bench, no one was better qualified to perform the herculean task of a revision of the laws of the District of Columbia, which he

undertook to do gratuitously, at the special invitation of the legal fraternity and of the community at large. This work has received the approval of Congress, and enacted by it into "a code of law of the District of Columbia," and is now the law of this land.

But while his work as a lawyer, judge and author has been important, yet by far the most important and influential and beneficial work of his life has been as preceptor and teacher. To me has been awarded the high privilege of speaking for thousands of his students, the Alumni of Columbian, as to their high appreciation of his services to them, and I can not better express their feelings than by reading excerpts from a few of the many hundred letters received, and for which I am indebted to Mr. King, the President of the Alumni Association, and Mr. Woodard, the Secretary of the Committee on Arrangements. Strength is added to these loving expressions of regard, from the fact that when written by their authors it was not expected that they would ever reach the eye or ear of their loved and honored preceptor. They were spoken behind his back, as it were.

One of these is the Honorable Preston B. Gillett, Judge of the 24th Judicial District, Kingman, Kansas, January 12, 1902. He says:

"I love Judge Cox. He did me a great amount of good, and I shall always remember him with the kindest feelings."

Another is from Mr. A. B. Browne and Mr. Alex. Britton of this city. They unite in saying:

"We both have the highest possible regard for the Judge and feel that his services to the University entitle him to the very highest expression of our good will."

Another is from Mr. Lucius M. Cuthbert, now of Denver, Colorado:

"My association with Judge Cox was of the pleasantest nature, and I remember him with the greatest admiration and respect. His services to the Law School have been of incalculable value, and I have always felt that I have been most fortunate in having had the privilege of attending his lectures."

Alfred W. Arrington, Attorney-at-Law, of Pueblo, Colorado, says:

"I remember Judge Cox as Professor of Junior Class for the year 1875 with great affection and esteem. I doubt if he has ever had his superior as a legal instructor of law students in this country. Such is the impression he left upon me, and which has remained with me during the changing years. I wish him health and happiness in his retirement from active life."

Henry W. Price, of Chicago, Illinois, says:

"I join with all the others of the Alumni in acknowledging a deep feeling of affection for my old preceptor."

Another is from Alfred M. Fuller, Cienfuegos, Cuba, now serving as captain in the Second United States Cavalry:

"I have very pleasant remembrances of my law school days and especially appreciated Judge Cox's thorough and earnest teaching. I wish him a long, happy life."

Another is from S. E. Tracy, Attorney-at-Law, of Houston, Texas, who says:

"I count it as one of the great privileges of my professional training that I had the opportunity of receiving instruction and inspiration from Judge Cox, for whom I have the warmest regard. My only regret in connection with this matter is that I can not be personally present and participate in the public meeting that is to be held in his behalf, but I wish you and your conferees all the success possible in your laudable undertaking."

And last and yet first, is from James F. Colby, of Dartmouth College, Hanover, New Hampshire, who was a member of Judge Cox's first law class. He says:

"He will hardly recall the names or faces of many of us who formed his first class, but we all cherish, in common with the long line of his pupils who have followed, the recollection of his thorough instruction in legal principles and accurate forms of statement, his scholarly example and inculcation of a high sense of professional honor. Pray express to him my sense of indebtedness for his invaluable instruction and allow me to unite with all our brethren in all their expressions of gratitude, good wishes and honor, which are only his just due."

After reading to you these beautiful expressions of sentiment for their former preceptor, it remains only for me to present on behalf of the members of our Association this beautiful ornament of silver, as a slight token of their regard. There is an old German proverb that "Speech is silver, silence is gold." If this be true, and if this ornament of silver could speak to-night, it would pour forth words of eloquence and of love that would make the words that I have uttered appear but as "Sounding brass or a tinkling cymbal." In saying good-night, but not good-bye, to Judge Cox, and echoing the sentiments of each and every of the members of the Alumni Association, I would say to him, if he were here, but in his necessary and regrettable absence, I can only say of him: We honor him, we respect him, we admire him, we love him; God bless him and preserve him to us for many years to come.

Address in Behalf of the Students of the Law
School by GEORGE BLISS NELSON, B.L.,
of the Third Year Class.

However great may be the rivalry between the classes of the Law School of Columbian University; however much they may differ on certain questions, or however numerous and varied may be the thoughts and opinions of the individuals who compose those classes, they are, I think, one and all alike in having a warm feeling for Columbian. We all thankfully and gratefully acknowledge the privileges which she grants and the blessings and benefits which she confers. We feel that she has a right to demand a place in the front rank with the best law schools of this country.

To-night the name of one who has done more for Columbian than any other, who has stood by her with faithful devotion, and who has consecrated countless of his best hours to the instruction of her youth in the law, is in the mind of every person in this audience. And as we glory in the present condition of Columbian, so do we acknowledge with gratitude and thankfulness the prominent part Judge Cox has taken in making Columbian all that she is to-day. In making this acknowledgment of his services, it is not my intention to take one word of praise from others who have so nobly assisted. Their part also deserves the highest praise. But twenty-eight years is a long time to be connected with a university. Twenty-eight years is a long time to carry such a responsibility.

It might well be thought that one in his circumstances would tire of the continual strain of the class-room. Not so with

Judge Cox. His enthusiasm for the law, and strong desire to see the standard of the profession raised, induced him to labor in the old fields. What benefits have come to the profession, directly and indirectly from his efforts, can only be estimated by Him whose mind knoweth all things, and whose all-seeing eye comprehendeth everything at a glance.

Some one has said that the truly great lawyer, the ideal lawyer if you please, worthily magnifies the nature and duties of his office. He scorns every form of meanness or disreputable practice. By unwearied industry he masters the vast and complex technical learning of his profession. Not satisfied with this, he studies the eternal principles of justice as developed and illustrated in the history of the law and in the jurisprudence of other times and other nations. So earnestly does he do this that he comes to love these eternal principles, and is thenceforward content only when he is endeavoring by every means within his power to be not only an ornament but a help unto the laws of his state or nation.

As I utter these thoughts, I can not but feel that a similar conception might have come from an intimate and close acquaintance with Judge Cox. A successful practitioner, attaining prominence at the bar; an able judge occupying a distinguished position in the Supreme Court of this District; a learned text-writer, contributing to the shelves of legal learning; a professor of law, imparting a portion of his vast store of knowledge to students at Columbian, and last but not least, a constructive lawyer, endeavoring to better the laws of his country, remodeling and revising, destroying the bad and preserving the good.

Fellow students, let us strive to be worthy of the ideals of him whom we to-night honor. Let us strive to pursue our professions with the same high devotion, remembering always that the goddess who presides over the destinies of lawyers, rewards those who have the persistence to be devoted to their profession, and the nobility and strength of character to be professionally honorable.

In closing, let me express our sincere regret that it has become necessary for Judge Cox to sever his connection with Columbian.

Though this be true in reality, we shall still believe him to be an interested spectator of her progress, which we all hope and pray may be ever on the increase. May he live to see many more of these grand years of the twentieth century, and as the days of his autumn, which I trust may all be beautiful, come and go, may he find comfort, happiness and pleasure in the contemplation of the thought that he has successfully harvested the great fruits of a great profession and made for himself a host of sincere friends.

And so permit me, in behalf of the students of law of Columbian University, to express our gratitude and thankfulness to him, not only for the example he has given us, but also for the interest and enthusiasm he has always manifested for better lawyers and higher legal education.

Address in Behalf of the School of Jurisprudence and Diplomacy by

Dean CHARLES W. NEEDHAM, LL.D.

Dean Needham presented regrets of Mr. Justice Harlan of the Supreme Court of the United States, Mr. Justice Morris of the Court of Appeals of the District of Columbia and Mr. Justice Bradley of the Supreme Court of the District, after which he said in part:

After listening to the very able and interesting addresses by those who stand high in the honorable profession of the law, who have spoken from out a long, close and pleasurable acquaintance with Judge Cox and who have given such splendid testimony as to his character, his learning and his services, there is very little that I, who have had the honor of knowing and serving with him in this school for only a few years, can say that will add to his honor or to the pleasure of this occasion. Nevertheless I should feel keenly disappointed if I could not express my high esteem of his professional learning, his high and pure character and the splendid services he has rendered as Dean and instructor in this school. We have worked together, he at the head of the Law School and I leading the effort to establish the School of Comparative Jurisprudence and Diplomacy. The association has necessarily been intimate and I have had opportunity to observe his excellent qualities as a legal instructor and his devotion to the

School. This association has been to me exceedingly pleasant, and my esteem of the man, the judge and the legal instructor has broadened and deepened with the years of association.

As I listened to the account of his twenty-eight years of service in this school I tried to gather up in my mind what these years stand for. Let me endeavor to sum up some of the qualities that are evidenced by the twenty-eight years of service in this school.

1. They are evidence of learning, of legal culture. This is one of the schools of a great University. There are gathered at the National Capital some of the best and ablest men in this great land. The University has had the ability and opportunity to call to its service from public life and from the profession in this city, many distinguished men. It could choose men of quality, of broad mind, of deep legal learning. But until he voluntarily broke the tie no change has been thought of and the years of service have gone on multiplying until over a quarter of a century has passed. What a splendid testimony to his learning and great legal culture is suggested by these years.

2. They stand for integrity. I love that word. It means soundness, uprightness, wholeness, fidelity, freedom from moral corruptness. To me the Book of Job is one of the greatest poems ever written and the central figure reaches the zenith of his power and glory when in awful affliction he stands among the wreck and ruin of earthly possessions, in the torment of mental and physical suffering, and says with sublime truthfulness, "I have maintained mine integrity." We need this quality in these days. Men whose moral characters are tried and yet remain clean, and sound, and splendid. These twenty-eight years are an unbroken testimony to the integrity of the man.

3. They stand as an evidence of a persisting moral force. How easily we tire of work and turn aside from the duties that are hard, that try and weary us. Much of the work of the teacher is pleasant and invigorating, but there is another side. There is a constant, steady drain upon the mental and physical forces. Propositions must be stated and restated, explanations made and repeated until patience is strained to its utmost and

there comes a weariness of mind and a weakness of body, and only a strong and persistent spirit can prevent him from turning aside to things which are new and therefore inviting. The rewards of success in this profession are not always before the eye, or in the ear; and if these are depended upon as the motive few will hold on long. Only a strong purpose and a persistent will can hold a man to a long continued service. Many fall out by the way and are content with an experimental trial. But twenty-eight years of continuous service testify to the moral force, the persisting and dominating will and purpose of this man's life.

4. I have not only been impressed by the years, but also by the results of this long service. During these years how many young men have gone out from this school into the profession with a good knowledge of the law, acquired in this school, and also with the impress upon their characters of some of the qualities possessed by such a teacher. Every State in the Union has been represented; into every State graduates have gone to make the law and some of these qualities of characters prevalent. Ours is a great and liberal profession. It teaches and molds human life in all stages and departments; at birth it determines status; through the abnormal status called infancy, it guards and protects all rights with absolute fidelity; and in all the multitudinous social, political and business activities of the man to his last act in disposing of his estate the law is present and active to be interpreted, applied and enforced by the lawyer.

Edmund Burke, that prince of Englishmen, speaking in Parliament says, "It is not only our duty to make law known, it is our duty to make it prevalent." In the vast majority of cases whether law is properly made known and made prevalent depends upon the learning, the character and the integrity of the man who presides, without form or ceremony, in the privacy of the consultation room. It is essential that a judge be a man of character, but I am not sure but that it is a greater test of character to be a lawyer in private and active practice in these days. It is a great service, therefore, that a man renders who teaches these rules of human action and at the same time impresses upon the student the ethics of the profession; who stimulates

the student to search out all knowledge and at the same time develops in him a true character ; who prepares men to interpret the law and to make law prevalent.

We join most heartily with Mr. Justice Morris in the hope that Judge Cox may live many years to enjoy the reputation and honor which he has so well earned and which we to-night so heartily accord to him.

Address of the Honorable WALTER S. COX.

Judge Cox was unable to be present at the commemorative exercises, on account of illness, but sent the following address of greeting:

Mr. President and Gentlemen:

I have been notified of the proposed exercises at the Law School to-night and am much affected by this most kind and, I fear, hardly deserved tribute.

It would be most gratifying to me to be able to mingle with you all and return thanks in person for the honor you do me, but that being impossible, I have to request that Mr. Arthur Peter may represent me and be my organ in saying what I would probably say if present. The occasion is one which invites retrospection and introspection, and it leads me to speak of the last subject in the world about which I like to be heard, viz: self.

As I look back through the past years, I recall that in and about 1873 I barely knew of the existence of this school, but knew nothing of its management, operations or success. It was conducted in a very quiet and retired way by two gentlemen, a Mr. Kennedy, a somewhat elderly member of our bar, and Professor Tyler, author of the edition of Stephen on Pleading, now in use here. It was carried on in a somewhat rickety building on Fifth street on the site of the office building now owned by the University, a building which had once been a church, but at the time I speak of was an office building, in which one large room up stairs was used by the law school.

Mr. Kennedy desiring to retire from this work, both he and Dr. Welling, President of the Board of Trustees, urged me to accept his place. I hesitated, being doubtful whether I could give the necessary time to it, and also of my fitness for it. I consented, however, and entered upon the task. While Professor Tyler lectured upon Pleading, Evidence and Equity, I began by lecturing upon the whole of Blackstone, thus treating the subjects of domestic relations, corporations, real property, personal property, torts, remedies, civil practice in the courts, and, finally, criminal law, with also a separate course on commercial paper. After I had been some years engaged in this work, I was requested by members of our bar to allow my name to be submitted to the Executive for appointment to the Bench of our Supreme Court. I can say without affectation that I had not the slightest ambition in that direction, and therefore positively refused, and the existing vacancy was filled otherwise. Afterwards when a new judgeship was provided, the request to me was renewed, and I consented to be nominated with considerable hesitation, mistrusting my fitness for the place. The question naturally suggested itself whether, if I should be appointed to the bench, I must resign my professorship. If I had to choose between them I would have retained my chair in the school and declined the other. I may be said to have had a good example, in this respect, in the case of Mr. Justice Story of the Supreme Court of the United States. When I went to the Harvard Law School he and Professor Greenleaf, author of the work on evidence, were the only Professors. Judge Story died a few days after I arrived there. Professor Greenleaf, in his obituary address, mentioned as a fact that Judge Story had been seriously considering the question of retiring from the bench and devoting himself exclusively to his professorship.

I, however, decided to attempt the work of both offices. I soon realized that, except on mere questions of practice, my experience in the school was the best preparation that I had had, or could have had, for the bench. The explanation is easy. When a lawyer has been for some time in practice he forgets a good deal that he learned in his student days and in his early profes-

sional years. He retains a somewhat confused impression of the elementary, historical and philosophical features of the system under which he is working. And when he undertakes to review his early studies he can appreciate them so much better than he did originally that it is like entering upon a new study. When I applied myself to the task of preparing for the work of instruction, I was surprised to find how much I had forgotten, and how much knowledge I had to renew, and how lacking my existing impressions were in accuracy and certainty. And this reminds me to suggest to you young gentlemen, in passing, that you read your Blackstone through annually for at least five or six years after you are admitted to the bar. I remember hearing of a former eminent member of our local bar who was addicted to social excesses, that after a night's dissipation, even in his middle life, he would be seen in the morning with his head bandaged in wet towels, reading Blackstone. I commend his example to you so far as imbibing the spirit of Blackstone is concerned, but no farther.

But now, in contrast with the practitioners, the professor is obliged to refresh his memory at the fountain heads, to have a systematic knowledge of the entire subject which he is to expound and be ready to answer inquiries as to every part of it. And of course the more numerous his subjects, the more thorough must be his preparation. And therefore it was, that after lecturing for some years over the broad field that I have mentioned, I was much better prepared than if I had remained a practitioner, to settle the contests of the forum on questions within the scope of my labors as fast as they arose. It was as if I had studied some seven years for the express purpose of qualifying myself for the bench.

In the course of time Professor Tyler died, and the question was, who should succeed him. Mr. Maury, with whom I have been united in the bonds of personal and professional friendship for over forty years, had returned from Richmond to Washington, his native place, and resumed the practice here. Before the Civil War he had been connected with Mr. Carlisle, one of the brilliant leaders of our bar, and I had had ample opportunity of ob-

serving his thorough education, industry, devotion to his profession and scholarly tastes, and I suggested him to President Welling as, of all the persons of my acquaintance, the best fitted for the place. With Dr. Welling's concurrence, I obtained Mr. Maury's consent and he was duly appointed. We worked along together for some years with equal authority and in perfect harmony, and had the exclusive control of the school until the growth of the school and the addition of new courses made it necessary to have additional force.

I have often thought that the most stimulating and agreeable intellectual exercise was that of presiding at a *mise en question* trial of an important cause conducted by able counsel. The judge's faculties are strained to their utmost tension, his memory is tasked, his judgment exercised in the rapid application of the principles with which his mind is supposed to be tessellated, to the problems which are sprung upon him, which may have been carefully studied by counsel, but which may be new to him and yet have to be disposed of without delay. It is not to be wondered at that mistakes are often made which have to be redressed by appellate deliberation.

But next to this, in pleasurable excitement, I think, is the work of imparting useful information to a body of ambitious young men.

The lecturer is flattered by the attention he receives and enjoys the feeling that he is preparing his hearers for their life work, and the hope that their future success and eminence may be partly due to him and be credited to him. He, too, is often put to his trumps. A bright student will often propound questions which startle him, and actually put him upon trial, as it were, before the class. His mind has to work as quickly as that of the judge upon the bench. And so, in the mutual examinations of professor and student, there is that attrition of minds which strikes out the electric spark which excites and stimulates. It has often been my experience to have questions submitted which I never thought of and which were not easy to answer on the instant, and I have sometimes had to correct my answers on

further reflection. This is the agreeable side of the professor's experience.

Of course, there are drawbacks to everything agreeable and attractive. I was reading recently a letter from Dr. Oliver Wendell Holmes, at a time when he was lecturing in the Medical School at Cambridge, to his friend Motley, in which he said: "You know that the steady tramp of a regiment would rock the Mevai bridge from its fastenings, and so all military bodies break the step in crossing it. This reiteration of lectures in even march, produces some such oscillation of mind, and one longs, after a certain time, to break up their uniformity." This is not exactly my experience with law lectures. But there is the irksomeness of being tied down to days and hours for two-thirds of the year, the disappointments as to the results of your efforts to instruct in many cases, the want of diligence and intelligence in the student, the labor of the examinations, the dissatisfaction with the rulings, the hundred excuses that have to be considered, the exceptions that have to be made, all which matters have often so annoyed me that I have felt like throwing up the work. But then this feeling would disappear in the mental excitement of the lecture-room, which seemed to outweigh the temporary annoyance. And I presume that the experience of my associates has been similar.

It has not been our province to lead you gentlemen into the higher realms of jurisprudence. Law is both an *art* and a *science*. You have entered this school, first, to learn it as an *art*, i. e. to learn its practical application to the affairs of every-day life, by which you may earn an honorable subsistence, as attorneys, counsel or advocates. You are not yet jurists, but it is open to you, after finishing your course here, to go up higher, to study law as a science, to trace our system to its earliest source, to compare it with other systems, to note the general evolution of all law with the development of civilization, to study its failures and defects, and the remedies for them. Then you are in the field of jurisprudence and the School of Comparative Jurisprudence opens this to you, and when you have become

grounded in our course, we have always been glad to speed you on to higher attainments.

Some six or seven years ago, the office of Dean of the Law School was created for the first time, and, in order to relieve the authorities from embarrassment, I accepted it. The Dean is ordinarily expected to be familiar with the legal literature of the day, and perhaps to contribute to it himself, and he is burdened with correspondence, and has numbers of questions to decide. I could not expect or be expected to meet satisfactorily all the requirements of the office, when I was still on the bench, and especially when there was also thrown upon me the labor of preparing a code for the District. And therefore I was very largely dependent upon the assistance of the gentleman who has succeeded me in that office, and I can not be said to have been a model as a Dean.

After what I have said, you can appreciate the reluctance with which I have relinquished a work so accordant with my tastes and training. Only the physical disability to continue it could have prompted it. I need hardly say how I have been gratified and flattered by the expressions of regret from all quarters. But it never entered my imagination that you would deem me deserving of so formal and unusual a demonstration as the present. For that I must return my most hearty thanks, and I shall ever regard this as, naturally the last, but not the least, of the honors.

Special Action of the Alumni.

A large number of the alumni having united in procuring the permanent testimonial, a silver pitcher, referred to in Mr. Brown's address, the following letter was addressed to Judge Cox:

ALUMNI ASSOCIATION OF THE COLUMBIAN UNIVERSITY.

WASHINGTON, D. C., *February 13, 1902.*

MY DEAR JUDGE COX:

The members of the Alumni Association have found great pleasure in accepting the opportunity provided by your retirement from the Faculty of the University, to express to you by a testimonial of a permanent character their high personal regard for you and their appreciation of the interest which, for many years, you showed in their instruction in legal principles.

It is with great regret that we find that you are unable to be present on next Friday evening, when the commemorative exercises are to be held. I am, on this account, instructed to ask your pleasure as to the circumstances under which you will receive the testimonial selected for presentation. A small committee, representing the Association, will wait upon you at any hour which you name as convenient to you, on Saturday or some later date, or if the state of your health is such that you would prefer not to receive a committee, we shall regard your wishes as paramount to our own desire to greet you personally, and will then forward to you by messenger our offering.

With kindest regards and the best wishes for your renewal in health, I am, on behalf of the Alumni Association,

Very truly yours,

WILLIAM B. KING,
President.

The response of Judge Cox was as follows:

WASHINGTON, February 15, 1902.

DEAR MR. KING:

I have your note. I deeply feel this kind action on the part of the Alumni Association and will be happy to assist them in carrying it out.

I am now confined to my bed, but I expect to be up on Saturday and will be glad to receive a committee, as you suggest, say, at 12 o'clock on that day, at my house.

Very truly yours,

WALTER S. COX.

WM. B. KING, Esq.,

President, Alumni Association.

A committee of the Alumni, consisting of Chapin Brown, William B. King, John B. Larner and Henry F. Woodard accordingly called on Judge Cox informally on Saturday, February 18, and delivered the pitcher to him. He expressed with much feeling both his surprise and pleasure at the action of the Alumni and of the authorities of the University.

THE COLUMBIAN UNIVERSITY

WASHINGTON, D. C.

REPORT OF THE TREASURER

PART I

FOR THE

YEAR ENDING DECEMBER 31, 1901

PART II

FOR THE

EIGHT MONTHS ENDING AUGUST 31, 1902



WASHINGTON, D. C.

OCTOBER 8, 1902

PART II.

Detailed Statement of Receipts and Disbursements for Eight Months Ending August 31, 1902.

COLLEGE.

RECEIPTS.

Tuition fees.....	\$2,821 03
Matriculation fees.....	30 00
Laboratory fees.....	42 84
Diploma fees.....	100 00
Contributions for Sterrett medal.....	4 00
Rents, Cutler House.....	214 50
One-half gross rent of Powell House....	600 00
Dividends, Walsh Prize Fund.....	6 58
Receipts from Guarantee Fund.....	265 00
Interest, Kendall Fund.....	122 83
Interest, Elton Fund.....	110 97
Contribution for Library from Columbian Women.....	270 00
Laboratory deposits.....	25 86
	\$4,613 61

DISBURSEMENTS.

Salaries:

A. J. Huntington, in full to August 30, 1902.....	\$400 00
J. H. Gore, in full to August 30, 1902....	1,240 00
H. L. Hodgkins, in full to August 30, 1902.	1,200 00
J. Macbride Sterrett, in full to August 30, 1902.....	1,200 00
C. E. Munroe, in full to August 30, 1902....	1,200 00
H. Schoenfeld, in full to August 30, 1902..	1,200 00

C. C. Swisher, in full to August 30, 1902....	\$1,200 00	
W. A. Wilbur, in full to August 30, 1902....	1,200 00	
Mitchell Carroll, in full to August 30, 1902....	1,200 00	
C. S. Smith, in full to August 30, 1902....	600 00	
G. N. Henning, in full to August 30, 1902....	600 00	
	<hr/>	\$11,240 00

Printing:

Judd & Detweiler.....	162 27	
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Stationery:

W. F. Roberts.....	\$19 50	
Judd & Detweiler.....	4 50	
W. H. Rupp.....	7 50	
	<hr/>	31 50

Cutler House expenses:

Insurance interest, National Metropolitan		
Bank.....	\$3 93	
Taxes to June 30, 1902.....	129 73	
	<hr/>	133 66

One-half Powell House expenses:

Insurance interest, National Metropolitan		
Bank.....	\$2 94	
Repairs, S. H. Edmonston.....	71	
Repairs, Dodson & Hodgson.....	3 37	
Taxes to June 30, 1902.....	70 08	
	<hr/>	77 10

Sundries:

Taxes on northwest lots to June 30, 1902....	\$475 95	
Share of Commencement exercises.....	101 03	
Postage.....	5 00	
J. B. Kieffer, treasurer.....	5 00	
Sanders & Stayman Co.....	2 00	
Tuition refunded.....	6 25	
Tuition fees transferred to Corcoran School....	352 45	
	<hr/>	947 68
		<hr/>
		\$12,592 21
		<hr/>

CORCORAN SCIENTIFIC SCHOOL.

RECEIPTS.

Tuition fees ..	\$10,847 73
Laboratory fees ..	9 00
Diploma fees ..	72 00
Interest, Mary Lowell Stone Fund.....	44 39
One-half rent of Powell House.....	600 00
Laboratory deposits.....	23 43
	<hr/>
	\$11,596 55

DISBURSEMENTS.

Fees:

H. L. Hodgkins, in full to August 30, 1902.	\$1,557 16
C. E. Munroe.....	1,157 97
H. Schoenfeld.....	229 16
G. P. Merrill.....	293 27
A. F. Craven.....	262 14
Edward Farguhar.....	137 13
F. A. Wolff, Jr.....	481 93
E. B. Pollard..	24 65
W. A. Wilbur.....	852 90
A. R. Spofford.....	312 01
H. L. Rice.....	96 50
Gust. Ayres.....	31 24
T. F. Laist..	334 31
Mitchell Carroll.....	95 07
H. A. Pressey....	744 60
E. L. Thurston.....	353 70
E. N. Kirby.....	95 96
Paul Bartsch.....	115 68
W. F. Dalea.....	137 04
H. Presnell.....	311 98
Hugh Williams..	29 58
E. A. Muir.....	161 70
W. P. Cutter ..	198 66
G. N. Henning.....	480 14
C. Abbe ..	16 02
J. H. Fedeler.....	138 48
	<hr/>
	\$8,648 98

Assay Laboratory:		
Z. D. Gilman		\$43 38
Architecture Laboratory:		
J. B. Lambie		2 65
Botany Laboratory:		
Express charges	\$0 45	
Edward Pennoek	36 25	
		36 70
Chemical Laboratory:		
Z. D. Gilman	\$154 89	
Freight	35	
Geo. F. McAvoy	14 60	
Raymond Outwater	10 27	
		180 11
Civil Engineering Laboratory:		
H. A. Pressey, for supplies		5 85
Mechanical Engineering Laboratory:		
W. H. Lowdermilk		14 05
Mineralogy Laboratory:		
Elmer & Amend		34 15
Zoological Laboratory:		
E. J. Pullman		24 77
Laboratory deposits returned:		
W. D. Landy	\$14 55	
C. C. Van Leer	15 64	
O. D. Swett	15 27	
C. W. Fairbank	6 44	
A. L. Burt	6 74	
L. G. Hoxton	22 53	
W. F. Summy	7 29	
W. O. Snelling	1 70	
		90 13
Printing:		
W. E. Roberts	\$5 25	
Judd & Detweiler	236 13	
		241 38

Stationery:

W. H. Rupp.....	\$15 00
W. F. Roberts.....	2 00
E. Morrison Paper Co.....	2 17

\$19 17

One-half Powell House expenses:

Insurance interest, National Metropolitan Bank.....	\$2 94
Repairs, S. H. Edmonston.....	70
Repairs, Dodson & Hodgson.....	3 38
Taxes to June 30, 1902.....	70 08

77 10

Repairs:

John McGregor.....	\$50 85
T. W. Smith.....	20 00
J. B. Lambie.....	2 19
G. F. McAvoy.....	23 65
Washington Gas Light Co.....	25 00
Frank Libbey & Co.....	10 50

132 19

Sundries:

Share of Commencement expenses.....	\$52 86
Share of fuel.....	197 42
Share of lighting.....	10 96
National Electrical Supply Co.....	95 00
Standard Oil Co.....	18 62
Popular Astronomy.....	9 00
Library Bureau.....	7 50
F. G. Murray.....	8 30
W. O. Snelling.....	5 00
W. A. Boyd.....	5 00
Expressage.....	2 50
Railway and Locomotive Engineering.....	1 70
J. B. Lambie.....	1 70
F. E. Millis.....	1 00
American Electrician.....	1 00
J. B. Kendall.....	48
Notarial fee.....	25
Tuition refunded.....	97 50

515 79

\$30,066 40

GRADUATE SCHOOL.

RECEIPTS.

Tuition fees.	\$1,366 25
Laboratory fees.	4 00
Diploma fees.	230 00
Matriculation fees.	10 00
Laboratory deposits.	15 19
	<hr/> \$1,625 44

DISBURSEMENTS.

Salaries:

C. E. Munroe, in full to August 30, 1902 .	\$378 39
Max West	45 00
H. A. Pressey.	106 87
E. B. Pollard.	67 50
E. Farquhar.	33 75
C. C. Swisher.	73 12
W. A. Wilbur.	135 00
F. A. Wolf, Jr.	95 25
W. D. Johnston.	22 50
H. Schoenfeld.	78 75
G. Ayres.	84 38
D. K. Shute.	67 50
H. L. Hodgkins.	28 13
J. H. Gore.	11 25
W. P. Carr.	21 57
Walter Reed	21 57
T. N. Gill.	33 75
Mitchell Carroll.	22 50
A. E. Craven.	52 50
F. R. Rutter	50 63
G. P. Merrill.	6 00
	<hr/> 1,435 91

Laboratory deposits returned:

A. M. Doyle	\$19 69
M. M. Brewer.	20 42
	<hr/> 40 11

Stationery:

The Crane Co.....	\$2 25	
Judd & Detweiler.....	10 50	
E. Morrison Paper Co.....	1 00	
		\$13 75

Printing:

Judd & Detweiler.....	102 83	
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Sundries:

Share of Commencement exercises.....	\$150 70	
Postage.....	2 00	
W. A. Boyd.....	5 00	
W. A. Henderson & Co.....	1 75	
		159 45
		<u>\$1,752 05</u>

LAW SCHOOL.

RECEIPTS.

Tuition fees.....	\$19,228 00	
Oratory fees.....	305 00	
Library fees, three-fourths.....	51 00	
Diploma fees....	960 00	
M. M. Parker prize.....	100 00	
D. S. Hendrick memorial prize.....	25 00	
		<u>\$20,669 00</u>

DISBURSEMENTS.

Salaries:

J. M. Harlan, in full to August 30, 1902...	\$1,875 00	
D. J. Brewer.....	625 00	
W. A. Maury.....	1,875 00	
A. C. Bradley.....	625 00	
W. G. Johnson.....	625 00	
Willis Van Devanter.....	375 00	
S. J. Peelle.....	500 00	
Melville Church.....	375 00	

W. F. Mattingly	\$250 00	
C. W. Needham	1,562 50	
W. C. Clephane	850 00	
Arthur Peter	850 00	
E. C. Brandenburg	150 00	
H. P. Blair	150 00	
A. Y. Bradley	20 00	
Samuel Herrick	50 00	
Channing Rudd, oratory fees	341 00	
Doorkeepers	4 00	
	<hr/>	\$11,102 50

Law prizes :

H. B Fuller	\$25 00	
Geo. C. Todd	100 00	
Geo. W. Burton	40 00	
C. H. Trickey	30 00	
H. A. Teufel	20 00	
	<hr/>	215 00

Printing :

Judd & Detweiler	340 39	
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Stationery :

W. H. Rupp	\$1 50	
Judd & Detweiler	9 75	
	<hr/>	11 25

Sundries :

Share of Commencement expenses	\$724 90	
E. H. Pitcher	50 00	
Channing Rudd	3 35	
Association of American Law Schools	10 00	
J. Baumgarten & Sons	1 50	
Woodward & Lothrop	1 13	
Share of Law Lecture Hall expenses	3,339 17	
Share of Law Library expenses	424 27	
	<hr/>	\$4,554 32
		<hr/>
		\$16,223 46

SCHOOL OF COMPARATIVE JURISPRUDENCE AND DIPLOMACY.

RECEIPTS.

Tuition fees.....	\$2,470 25
Diploma fees.....	430 00
Proceeds from sale of syllabi.....	172 05
Library fees, one-fourth.....	17 00
	<hr/> \$3,089 30

DISBURSEMENTS.

Salaries:

C. W. Needham, in full to August 30, 1902.	\$312 50
J. M. Harlan.....	625 00
D. J. Brewer.....	625 00
J. W. Foster.....	1,000 00
D. J. Hill.....	1,000 00
J. F. Johnson.....	718 75
M. A. Knapp.....	500 00
C. D. Wright.....	734 33
C. C. Swisher.....	225 00
J. W. Holcombe.....	112 50
C. R. Dean.....	112 50
Ormsby McHarg.....	75 00
E. H. Strobel.....	675 00
G. C. Lee.....	80 00
J. Barrett.....	30 00
	<hr/> 6,834 58

Printing:

Judd & Detweiler.....	422 96
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Stationery:

E. A. Wright.....	\$5 90
Judd & Detweiler.....	13 00
	<hr/> 18 90

Sundries:

Share of Commencement expenses.....	\$231 14
Expressage.....	1 73

Channing Rudd.....	\$1 70	
Share of Law Lecture Hall expenses.....	1,113 06	
Share of Law Library expenses.....	141 42	
Tuition refunded.....	20 00	
	<u> </u>	\$1,509 05
		<u>\$8,785 49</u>

MEDICAL SCHOOL.

RECEIPTS.

Balance on hand December 31, 1901.....	\$7,083 03	
Tuition fees.....	\$14,726 15	
From Dental School for janitor.....	180 00	
From Dental School, four-sixths net fees.....	1,672 71	
Check No. 788, canceled.....	2 75	
	<u> </u>	16,581 61
		<u>\$23,664 64</u>

DISBURSEMENTS.

Salaries:

E. A. de Schweinitz.....	\$2,400 00
J. F. Thompson.....	1,900 00
W. W. Johnston.....	1,750 00
A. F. A. King.....	1,900 00
D. K. Shute.....	1,900 00
W. P. Carr.....	1,900 00
Sterling Rutlin.....	1,900 00
E. G. Seibert.....	400 00
James Carroll.....	275 00
Frank Hagner.....	100 00
J. B. Nichols.....	200 00
Walter Reed.....	500 00
H. C. Yarrow.....	50 00
H. L. E. Johnson.....	50 00
T. E. McArdle.....	50 00
W. K. Butler.....	50 00
C. W. Richardson.....	100 00
E. L. Tompkins.....	50 00

A. R. Shands.....	\$50 00
John Van Rensselaer	50 00
G. N. Acker.....	50 00
G. W. Cook.....	100 00
T. A. Claytor.....	50 00
A. B. Richardson.....	50 00
J. M. Cabell.....	50 00
W. C. Woodward.....	50 00
W. F. R. Phillips.....	1,762 00
F. P. Morgan.....	75 00
D. W. Prentiss	50 00
E. E. Morse.....	100 00
B. L. Hardin.....	60 00
J. R. Wellington.....	60 00
L. H. Reichelderfer.....	60 00
H. S. Medford.....	60 00
W. I. Robey.....	35 00
H. H. Donnally.....	150 00
W. Honesty	135 00
R. Hamilton.....	90 00
	<hr/> \$18,652 00

Sundries:

Paid deficit of hospital.....	\$693 10
Fourth annual contribution to hospital...	1,000 00
Share of Commencement expenses, 1901 and 1902.....	175 65
Riggs National Bank.....	390 00
Martha Moore.....	8 44
Woodward & Lothrop.....	6 00
B. S. Adams	2 25
J. L. Kervand.....	68 50
J. Ford.....	50 00
C. C. Bryan.....	4 33
W. A. Boyd.....	5 00
Dulin & Martin Co.....	1 00
Chesapeake and Potomac Telephone Co..	23 75
E. A. de Schweinitz.....	71 15
J. B. Lambie.....	6 10
Dr. B. Holmes.....	5 00
H. H. Seltzer.....	9 90
Judd & Detweiler.....	519 28

C. C. Carter.....	\$3 05	
H. F. Pipes.....	50 00	
Charles Rauscher.....	111 38	
J. H. Lewis.....	11 25	
D. K. Shute.....	30 00	
W. P. Carr.....	30 00	
	<hr/>	\$3,275 15

Advertising:

A. R. Elliott Publishing Co.....	25 00	
Virginia Medical Semi-monthly.....	16 87	
Maryland Medical Journal.....	37 50	
American Medicine Publishing Co.....	35 00	
The Macmillan Co.....	24 00	
Journal of the American Medical Ass'n...	60 00	
Lea Brothers & Co.....	10 00	
Washington Medical Annals.....	15 00	
R. L. Polk & Co.....	50 00	
The Evening Star.....	5 65	
New York Medical Journal.....	12 50	
Washington Times.....	60	
	<hr/>	292 12

Laboratory supplies:

Bausch & Lomb Optical Co.....	\$108 99	
Ernest Leitz.....	26 15	
A. H. Thomas Co.....	18 06	
Z. D. Gilman.....	183 50	
Kimer & Amend.....	32 17	
	<hr/>	368 87

Stationery:

Wm. Ballantyne.....	\$0 45	
E. Morrison Paper Co.....	20 74	
	<hr/>	21 19

Lighting:

U. S. Electric Lighting Co.....	\$108 84	
Washington Gas-Light Co.....	72 90	
	<hr/>	181 74

Insurance:

National Metropolitan Bank.....	\$16 18	
Tyler & Rutherford.....	15 38	
	<hr/>	31 56

Water rent :

Collector of taxes.....	\$7 62
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Repairs :

Wm. Koch.....	\$8 25
Neely Electric Co.....	5 50
National Electrical Supply Co.....	5 40
Wm. Ramsey.....	1 50
Moore Brothers.....	2 00
	<hr/> 22 65

Fuel :

J. Maury Dove.....	52 95
Balance on hand August 31, 1902.....	758 79
	<hr/> \$23,664 64

DENTAL SCHOOL.

RECEIPTS.

Balance on hand December 31, 1901.....	\$1,788 49
Tuition fees	} 3,629 15
Infirmary fees	
	<hr/> \$5,417 64

DISBURSEMENTS

Salaries :

J. H. Lewis.....	\$825 00
H. C. Thompson.....	625 00
R. E. L. Hackney.....	225 00
W. H. Trail.....	275 00
W. F. R. Phillips.....	328 00
H. H. Donnally	50 00
	<hr/> \$2,328 00

Sundries :

One-half assessment of Dental Faculty's Association.....	\$25 00
Engrossing diplomas.....	4 20
Printing	187 64

Prize.....	\$25 00
Advertising.....	2 00
Collation supper.....	40 87
Addressing and mailing catalogues.....	10 00
Laundry bill.....	8 34
Share of Commencement expenses, 1902..	74 52
Paid Medical School on account of janitor.	180 00
Paid to Medical School four-sixths of balance on hand August 31, 1902.....	1,672 71
	<hr/>
	\$2,253 28
Balance on hand August 31, 1902.....	836 36
	<hr/>
	\$3,417 64
	<hr/>

HOSPITAL.

RECEIPTS.

From Board of Lady Managers.....	\$911 10
From superintendent.....	2,943 74
Payment by Medical School.....	1,693 10
Canceled check, A. J. McKee.....	3 35
	<hr/>
	\$5,521 29
	<hr/>

DISBURSEMENTS.

Deficit December 31, 1901.....	\$1,174 01
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Salaries:

A. G. Odell, superintendent.....	\$480 00
C. Cartiss, head nurse.....	75 00
E. Elliott, pupil nurse.....	27 00
D. Dinsmore, pupil nurse.....	45 00
N. Wiseman, pupil nurse.....	36 00
V. Hines, pupil nurse.....	27 00
M. Hopkins, pupil nurse.....	54 00
C. Bord, pupil nurse.....	23 10
M. Brown, pupil nurse.....	20 00
C. Donnally, pupil nurse.....	10 00
S. Ferrier, pupil nurse.....	27 00
M. Ullman, pupil nurse.....	9 00

M. Irwin, pupil nurse.....	\$9 00
L. Tyler, cook.....	105 00
M. Murphy, maid.....	45 00
A. McNier, laundress.....	79 50
R. Johnson, maid.....	84 00
J. Payne, janitor.....	100 00
R. Hamilton, janitor.....	44 00
F. Pollard, laundress.....	25 50
P. Wesley, cartman.....	14 00
Catherine Messer.....	20 00
	<hr/>
	\$1,359 10
Table supplies.....	1,474 99
House expenses.....	1,314 89
Dispensary supplies.....	198 27
	<hr/>
	\$3,521 29
	<hr/>

GENERAL EXPENSE ACCOUNT.

Balance on hand January 1, 1902..... \$4,158 10

RECEIPTS.

Received from the Fidelity Trust Co. of Philadelphia on account of loan of \$360,000 negotiated April 3, 1902.....	\$180,000 00
Borrowed from the Corcoran Endowment Fund.....	7,955 07
Dividends Quinsigamond National Bank.....	\$15 00
Dividends, Pennsylvania Telephone Co.....	18 00
	<hr/>
	33 00
Legacy of Mrs. Marion Cutter.....	1,000 00
Corcoran Endowment Fund, interest...	372 06
Rents, Columbian Building..	\$10,951 84
Rents, 1719 S street.....	210 00
Rents, 903 M street.....	408 41
Rents, Widdicombe stables.....	900 00
Rents, lecture halls.....	50 00
	<hr/>
	12,520 25

Received from sale of house, 1719 S street N. W.	\$13,000 00
Rebate on bill of Crane & Co.	50
J. B. Wimer, paid Stone Fund note	2,000 00
J. B. Wimer, paid Elton Fund note.	5,000 00
J. B. Wimer, paid Kendall Fund note.	3,000 00
	<hr/> \$224,880 88

DISBURSEMENTS.

Paid demand note dated February 1, 1899, at National Metropolitan Bank.	\$13,400 00
Paid demand note dated February 2, 1900, at National Metropolitan Bank.	8,000 00
Paid demand note dated June 3, 1901, at National Metropolitan Bank.	16,500 00
Paid note of Provident Life and Trust Co., dated December 28, 1897	53,000 00
	<hr/> 90,900 00

Salaries:

S. H. Greene, acting President.	\$1,000 00
C. W. Needham, President	1,200 00
C. W. Holmes, registrar.	1,056 64
G. A. Sewell, stenographer.	400 00
F. A. Barbour, book-keeper.	266 64
L. R. Alden, clerk.	67 50
J. S. Gadel, special clerk.	8 00
W. L. Lewis, janitor	360 00
R. T. Harris, janitor	210 00
R. Hawkins, janitor.	120 00
H. Randolph, fireman.	40 00
	<hr/> 4,738 78

Advertising:

Milton Tibbetts	30 00
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Printing:

Judd & Detweiler	119 35
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Stationery:

The Crane Co.	\$30 76
W. H. Cooper.	10 10
W. F. Roberts	7 50
E. Morrison Paper Co.	3 00
W. H. Rupp	15 95
	<hr/> 67 31

Columbian Building expenses:

Agent's commission.....	\$542 15	
Expenses paid by agent	4,208 00	
Interest, Riggs National Bank, \$1,500 00		
Interest National Metropolitan Bank	34 07	
	<hr/>	1,634 07
Insurance interest, National Metropolitan Bank	31 60	
Taxes to June 30, 1902.....	472 01	
	<hr/>	\$6,887 83

Knight House expenses:

Agent's commission.....	\$20 28	
Expenses paid by agent	47 90	
Taxes to June 30, 1902.....	57 37	
	<hr/>	125 55

Widdicombe property expenses:

Interest, Riggs National Bank {	\$780 00	
	390 00	
	<hr/>	\$1,170 00
Repairs, S. H. Edmondston.....	87 86	
Taxes to June 30, 1902.....	191 18	
	<hr/>	1,449 04

Martin House expenses:

Agent's commission.....	\$10 50	
Expenses paid by agent.....	14 50	
	<hr/>	25 00

Taxes:

Water rent, University Building.....	\$11 44	
Personal tax to June 30, 1902.....	12 00	
Burgdorf lots to June 30, 1902	40 28	
	<hr/>	63 72

Repairs:

J. McGregor.....	\$25 53	
Zellers & Co	29 82	
M. Du Perow.....	4 65	
J. B. Lambie	3 34	
G. F. McAvoy..	14 00	
National Electrical Supply Co.....	1 70	
Grafton & Son.....	35 95	
C. Schneider's Sons	2 00	
Neely Electric Co.....	40 64	
W. S. Hutchinson	7 63	
	<hr/>	165 26

Interest:

Riggs National Bank	\$520 00	
National Metropolitan Bank	463 73	
J. B. Wimer	4 17	
Fidelity Trust Co	708 66	
Insurance interest, National Metropol- itan Bank	31 38	
	-----	\$1,727 94

Medical and Hospital Building
construction:

John McGregor	\$65,000 00	
Hornblower & Marshall	3,360 85	
Zellers & Co.	1,000 00	
Fidelity Trust Co	441 67	
Taxes to June 30, 1902	227 78	
F. H. Smith Co.	2,500 00	
District Title Insurance Co.	218 25	
	-----	72,748 55

Sundries:

Share of fuel	\$180 72	
American Ice Co.	18 73	
Share of lighting	753 04	
Postage	272 39	
J. B. Wimer	429 82	
Woodward & Lothrop	261 13	
C. and P. Telephone Co.	90 00	
G. I. Raybold	31 85	
Paul A. Steele	15 00	
S. H. Greene	16 00	
Fowler Manufacturing Co.	31 00	
Scott Paper Co.	14 00	
The Shonham	13 50	
W. H. Day	16 50	
Water rent	2 24	
Outing Publishing Co.	3 00	
W. A. Boyd	5 00	
National Electrical Supply Co.	4 30	
G. Miles	2 25	
Protest fees, H. R. Pyne	1 33	
C. C. Carter	75	

Sanders & Stayman Co	\$4 25
Paid to the Coreoran Endowment Fund its equity in sale of 1739 S street.	9,118 83
A. Ambersh.	2 50
Car fare for messenger.	2 00
Packing for steam valves.	25
Rubber stamp.	25
W. B. Moses & Sons.	75
J. B. Lambie.	79
Chas. Johnson.	3 50
Chas. Rittershofer.	1 50
Wyckoff, Seamans & Benedict.	69
Expressage.	1 50
Telegram.	63
Hugh Reilly.	3 00
M. G. Copeland & Co.	7 50
C. Randolph.	25
W. A. Copenhagen.	1 00
Investment of E. K. Cutter Fund.	1,000 00
Investment of Stone Fund.	2,000 00
Investment of Elton Fund.	3,000 00
Investment of Kendall Fund.	3,000 00
	<hr/> \$22,208 70
	<hr/> \$21,357 03

RECAPITULATION.

Receipts and Disbursements in Each School for Period from January 1 to August 31, 1902.

Balance on hand December 31, 1901	Receipts	Disbursements	
<i>Receipts</i>		<i>Disbursements</i>	
Tuition fees	\$2,521.93	Salaries	\$11,240.00
Matron's fees	20.00	Printing	10.27
Boarding fees	42.84	Stationery	31.30
Domestic fees	100.00	Cost of house expenses	132.06
Gratuities, Sherrett model	4.00	Operating Power House Appliances	77.19
Operating expenses, Powell House	214.19	Supplies	107.08
Operating expenses, Wade Field	600.00		
Gratuities, Wade Field	1.28		
Gratuities, Fitch	200.00		
Prizes, Keweenaw Field	122.85		
Interest, Fitch Field	110.97		
Contribution from Keweenaw Women for Keweenaw	270.00		
Laboratory deposits	20.80		
	1,613.01		\$12,562.21
<i>Disbursements</i>		<i>Receipts</i>	
Tuition fees	\$10,817.72	Operating expenses, Powell House	\$2,521.93
Laboratory fees	4.00	Matron's fees	20.00
Printing	72.80	Boarding fees	42.84
Stationery	41.39	Domestic fees	100.00
Operating expenses, Powell House	600.00	Gratuities, Sherrett model	4.00
Laboratory deposits	23.43	Operating expenses, Powell House	214.19
		Operating expenses, Wade Field	600.00
		Gratuities, Wade Field	1.28
		Gratuities, Fitch	200.00
		Prizes, Keweenaw Field	122.85
		Interest, Fitch Field	110.97
		Contribution from Keweenaw Women for Keweenaw	270.00
		Laboratory deposits	20.80
			1,613.01
<i>Disbursements</i>		<i>Receipts</i>	
Operating expenses, Powell House	\$2,521.93	Operating expenses, Powell House	\$2,521.93
Matron's fees	20.00	Matron's fees	20.00
Boarding fees	42.84	Boarding fees	42.84
Domestic fees	100.00	Domestic fees	100.00
Gratuities, Sherrett model	4.00	Gratuities, Sherrett model	4.00
Operating expenses, Powell House	214.19	Operating expenses, Powell House	214.19
Operating expenses, Wade Field	600.00	Operating expenses, Wade Field	600.00
Gratuities, Wade Field	1.28	Gratuities, Wade Field	1.28
Gratuities, Fitch	200.00	Gratuities, Fitch	200.00
Prizes, Keweenaw Field	122.85	Prizes, Keweenaw Field	122.85
Interest, Fitch Field	110.97	Interest, Fitch Field	110.97
Contribution from Keweenaw Women for Keweenaw	270.00	Contribution from Keweenaw Women for Keweenaw	270.00
Laboratory deposits	20.80	Laboratory deposits	20.80
			1,613.01
<i>Disbursements</i>		<i>Receipts</i>	
Operating expenses, Powell House	\$2,521.93	Operating expenses, Powell House	\$2,521.93
Matron's fees	20.00	Matron's fees	20.00
Boarding fees	42.84	Boarding fees	42.84
Domestic fees	100.00	Domestic fees	100.00
Gratuities, Sherrett model	4.00	Gratuities, Sherrett model	4.00
Operating expenses, Powell House	214.19	Operating expenses, Powell House	214.19
Operating expenses, Wade Field	600.00	Operating expenses, Wade Field	600.00
Gratuities, Wade Field	1.28	Gratuities, Wade Field	1.28
Gratuities, Fitch	200.00	Gratuities, Fitch	200.00
Prizes, Keweenaw Field	122.85	Prizes, Keweenaw Field	122.85
Interest, Fitch Field	110.97	Interest, Fitch Field	110.97
Contribution from Keweenaw Women for Keweenaw	270.00	Contribution from Keweenaw Women for Keweenaw	270.00
Laboratory deposits	20.80	Laboratory deposits	20.80
			1,613.01

Grandville School		11,506.45	122.10
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	
1772			
Grandville School			
Amount paid	\$10,000.00		
Balance forward	30.00		
Subtotal	30.00		
Balance forward	30.00		
Subtotal	30.00		
Total		1,000.00	122.10
1773			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1774			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1775			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1776			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1777			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1778			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1779			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1780			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1781			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1782			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1783			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1784			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1785			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1786			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1787			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1788			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1789			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1790			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1791			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1792			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1793			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1794			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1795			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1796			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1797			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1798			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1799			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10
1800			
Grandville School			
Amount paid	\$1,404.45		
Balance forward	4.00		
Subtotal	230.00		
Balance forward	30.00		
Subtotal	15.10		
Total		1,625.44	122.10

LAW LECTURE HALL DISBURSEMENTS.

Salaries:

Channing Rudd, secretary.....	\$600 00	
P. A. Pearson, assistant secretary.....	250 00	
E. L. Kenney, janitor.....	210 00	
Blanche Reid, stenographer.....	227 50	
F. Essex, doorkeeper.....	26 40	
J. P. Divine, doorkeeper.....	30 20	
E. Randolph, doorkeeper.....	6 40	
R. B. Griffith, doorkeeper.....	26 40	
Grace Collins, stenographer.....	52 50	
		\$1,438 40

Advertising:

The Daily Student.....	\$5 76	
The Daily Cardinal.....	8 00	
The Minnesota Daily.....	4 40	
The M. S. U. Independent.....	4 80	
The Wolverine.....	7 00	
The Sprague Publishing Co.....	15 00	
The Success Co.....	26 60	
The Saturday Evening Post.....	16 62	
The Lantern.....	9 00	
		97 18

Stationery:

W. H. Rupp.....	\$18 30	
E. Morrison Paper Co.....	5 55	
The Crane Co.....	13 45	
Judd & Detweiler.....	8 25	
E. A. Wright.....	8 90	
Library Bureau.....	1 50	
		55 95

Repairs:

John McGregor.....	\$102 00	
J. B. Lambie.....	5 45	
C. Schneider's Sons.....	3 00	
National Electrical Supply Co.....	1 50	
Grafton & Son.....	7 50	
C. G. Thorn.....	48 00	
		167 45

Interest:

Riggs National Bank	\$1,520 00
Insurance interest, National Metropolitan Bank	12 64
	<u>\$1,532 64</u>

Sundries:

Share of fuel	\$361 43
American Ice Co.	7 56
Share of lighting.	346 56
Postage.	205 00
Woodward & Lothrop.	140 53
I. N. Powell.	34 00
C. and P. Telephone Co.	39 40
W. L. Lewis	6 00
W. B. Moses & Sons.	10 60
W. A. Boyd	5 00
Dolin & Martin Co.	2 50
Freight.	1 08
National Electrical Supply Co.	70
Drayage	25
	<u>1,160 61</u>
	<u>\$4,452 23</u>

LAW LIBRARY DISBURSEMENTS.

Salaries:

J. H. Altschu, librarian.	\$150 00
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Books and periodicals:

The Macmillan Co.	\$10 44
The Michie Co.	24 00
John Byrne & Co.	13 05
W. H. Lowdermilk & Co.	87 10
West Publishing Co.	159 50
Remick, Schilling & Co.	19 50
The Law Reporter Co.	5 00
Edward Thompson Co.	6 00
T. H. Flood & Co.	15 00
The Boston Book Co.	31 50
	<u>371 09</u>

Repairing books:

Gibson Bros.	44 60
	<u>\$565 69</u>

FUEL EXHIBIT.

J. Maury Dove, general account.....	\$722 87	
J. Maury Dove, Corcoran Assay Laboratory	16 70	
One-half of the cost of fuel purchased on general account is charged to the Law Lecture Hall		\$361 43
One-fourth of the cost of fuel purchased on general account is charged to the Gen- eral Fund.....		180 72
One-fourth of the cost of fuel purchased on general account plus that bought for the Laboratory is charged to the Corcoran School.....		197 42
	<u>\$739 57</u>	<u>\$739 57</u>

LIGHTING EXHIBIT.

United States Electric Lighting Co. on gen- eral account	\$419 44	
Washington Gas Light Co. on general ac- count.....	333 60	
		\$753 04
United States Electric Lighting Co. for Law Hall.....		346 56
United States Electric Lighting Co. for Cor- coran School	\$9 36	
Washington Gas Light Co. for Corcoran School.....	1 60	
		10 96
		<u>\$1,110 56</u>

EXHIBIT OF COMMENCEMENT EXPENSES.

Woodward & Lothrop on general account.	\$231 80
W. H. Rapley on general account.....	268 50
Milton Tibbetts on general account	15 00
National Guard Brigade Band on general account	141 00

W. B. Moses & Sons on general account.	\$15 00
M. G. Copeland & Co. on general account.	50 00
American Rose Co. on general account.	100 00
M. A. Sherwood on general account.	25 60
Judd & Detweiler on general account.	302 95
E. F. Schrader on general account.	75 00

Total on general account. \$1,224 25

E. A. Wright, College	\$4 50
P. A. Steele, College.	3 30
Harris & Shafer Co., College	40 00
Plus $\frac{1}{4}\%$ of expenses on general account, as above shown	53 23

Total College expenses. \$101 03

E. A. Wright, Corcoran	\$13 50
P. A. Steele, Corcoran.	2 40
Plus $\frac{1}{4}\%$ of expenses on general account, as above shown	37 26

Total Corcoran School expenses 52 86

G. T. Budd & Co., Graduate.	\$12 00
P. A. Steele, Graduate.	7 20
Judd & Detweiler, Graduate	3 75
Plus $\frac{1}{4}\%$ of expenses on general account, as shown above	127 75

Total Graduate School expenses 150 70

E. A. Wright, Law.	\$154 00
P. A. Steele, Law.	30 30
J. E. Berry, Law.	3 00
Plus $\frac{1}{4}\%$ of expenses on general account, as shown above	537 60

Total Law School expenses. 724 90

P. A. Steele, Comparative Jurisprudence.	\$12 90
Plus $\frac{1}{4}\%$ of expenses on general account, as shown above.	248 24

Total Comparative Jurisprudence
School expenses. 231 14

34% of general expenses are charged to the Medical School.....	\$175 65
34% of general expenses are charged to the Dental School.....	74 52
Total of Commencement expenses.....	<u>\$1,510 80</u>

The Commencement expenses paid on general account, amounting to \$1,224.25, are apportioned to the various schools on the basis of the number of graduates from each school.

MARY LOWELL STONE SCHOLARSHIP FUND.

Receipts:

J. B. Wimer, note paid April 11, 1902....	\$2,000 00
Interest on above note to date of payment.....	44 39
	<u>\$2,044 39</u>

Disbursements:

Paid above interest to General Fund.....	44 39
Invested in a note of Irving M. Crocker, dated March 25, 1902, payable in three years, with interest at 5 per cent. per annum, payable semi-annually, secured by deed of trust on parts of lots 23 and 24, square 210.....	1,000 00
Invested a second note of Irving M. Crocker on same terms as above.....	1,000 00
	<u>\$2,044 39</u>

ELTON FUND.

Receipts:

J. B. Wimer note paid April 11, 1902.....	\$5,000 00
Interest on above note to date of payment.....	110 97
	<u>\$5,110 97</u>

Disbursements:

Paid above interest to the College.....	\$110 97
Invested in a note of E. S. Parker, dated April 12, 1902, payable October 12, 1902, with interest at 5 per cent. per annum..	5,000 00
	<u>\$5,110 97</u>

KENDALL FUND.

Receipts:

J. B. Wimer note paid April 11, 1902.....	\$3,000 00	
Interest on above note to date of payment.....	66 58	
Semi-annual interest to May 5, 1902, on note of Mrs. E. M. Power	56 25	
	<u> </u>	\$3,122 83

Disbursements:

Paid above interest to the College.....	\$122 83	
Invested in a note of E. S. Parker, dated April 12, 1902, payable October 12, 1902, with interest at 5 per cent. per annum ..	3,000 00	
	<u> </u>	\$3,122 83

KENDALL FUND.

Investments:

Note of J. W. Hogg (assumed by J. T. Power, now deceased), dated March 31, 1883, on or before five years, at 4 per cent. Se- cured on lot 31, south grounds of Colum- bian University (1431 Chapin street). Note extended for five years from May 5, 1892, at 6 per cent. Time of payment extended for five years from May 5, 1897, at 6 per cent. Interest paid to May 5, 1902.....	\$1,875 00	
Note of S. E. Parker, dated April 12, 1902, payable October 12, 1902, with interest at 5 per cent. per annum	3,000 00	
	<u> </u>	\$4,875 00

E. K. CUTTER FUND.

Receipts:

Received from the American Security and Trust Co. the legacy of Mrs. Marion Cutter, to establish a prize in the College, to be known as the E. K. Cutter prize, and awarded for excellence in English.....	\$1,000 00
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Investment:

Bought 100 shares of the Washington Sanitary Im- provement Co. stock at par.	<u>\$1,000 00</u>
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WALSH FUND.

Receipts:

Dividend on Washington Sanitary Improvement Co.'s stock	\$6 58
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Disbursements:

Paid above dividend to the College.....	6 58
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WALSH FUND.

Investment:

Thirty shares of stock of the Washington Sanitary Improvement Company, par value, \$10.....	\$300 00
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WILLIE E. FITCH FUND.

Balance on hand December 31, 1901.....	\$304 61
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Receipts:

Semi-annual interest to March 26, 1902, on McLachlen note.....	36 00
	<u>\$340 61</u>

WILLIE E. FITCH FUND.

Investment:

Note of Josiah W. McLachlen, trustee of the Security Investment Company, dated September 26, 1891, payable in three years, with interest at 6 per cent. per annum, payable semi-annually, secured by deed of trust on lot 78, square 1008	\$1,200 00
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CORCORAN ENDOWMENT FUND.

Balance from fiscal year 1901.....	\$97 74
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Receipts:

J. H. Lane note paid March 6, 1902.....	2,400 00
Interest on above to date of payment.....	72 00
Interest on note of Elizabeth M. Power to May 5, 1902	300 00
Proceeds from sale of Martin House.....	9,118 83
	<u>\$11,988 57</u>

Disbursements:

Loaned to General Fund for current ex- penses.	\$7,955 07
Interest on Lane and Power notes paid to General Fund.	372 00
Paid National Metropolitan bank, note of December 28, 1898.	3,661 50
	<hr/> \$11,988 57

INVESTMENTS OF CORCORAN ENDOWMENT FUND.

First-mortgage note of Mrs. Mary Power, dated May 5, 1892, at 6 per cent., secured on lots 30 and 31, south grounds of Columbian University.	\$10,000 00
Columbian Building, 416 Fifth street.	200,000 00
Knight House, 903 M street.	7,910 57
Burgdorf lots, Petterson street N. E.	6,354 65
Held by General Fund.	7,955 07
	<hr/> \$232,220 20
Less amount due Mutual Benefit Insurance Co.	10,000 00
Net assets of fund.	<hr/> \$192,220 20

MISCELLANEOUS INVESTMENTS.

Quinsigamond National Bank stock	\$500 00
Pennsylvania Telephone Co. stock	100 00
	<hr/> \$600 00

LIABILITIES.

General Fund.

Demand note of Treasurer, dated January 24, 1898, at 5 per cent., National Metropolitan Bank, for perpetual insurance of \$7,500 on University Hospital, \$5,000 on Cutler House, \$7,500 on Powell House, and \$10,000 on University Hall.....	\$1,862 50
Demand note of Treasurer, dated December 2, 1898, at 5 per cent., National Metropolitan Bank, for \$5,000 perpetual insurance on Columbian Building.....	1,250 00
Demand note of Treasurer, dated December 2, 1898, at 5 per cent., National Metropolitan Bank, for \$17,000 perpetual insurance on Medical School Building....	640 00
Demand note of Treasurer, dated January 16, 1899, at 5 per cent., National Metropolitan Bank, for \$50,000 perpetual insurance on Law Lecture Hall.....	500 00
First mortgage note, held by Mutual Benefit Life Insurance Co. of Newark, N. J., dated August 1, 1898, five years, at 4 per cent., secured by deed of trust on University and Law Lecture Halls. Borrowed to erect Law Lecture Hall, \$38,000; repair University Hospital, \$8,000; pay out note of Fitch, Fox & Brown, lien on Hospital, \$5,000; Craft note, lien on Wildercombe stables, \$25,000, and notes due National Metropolitan Bank as part of purchase-money of Wildercombe stables, \$14,000,	90,000 00
First mortgage notes, held by Fidelity Trust Co. of Philadelphia, dated April 3, 1902, five years, 4 1/2 per cent., secured by deed of trust on lots 33, 34, sub 5 and 6, square 250, and on University and Law Halls	180,000 00

[NOTE.—The Fidelity loan as authorized by the Board of Trustees will amount to \$300,000. Of the remaining \$180,000 to be received from the Fidelity Trust Co., \$50,000 is to be used to complete new buildings for Medical School and Hospital, and \$130,000 used to pay off existing indebtedness to the Mutual Benefit Life Ins. Co.]

Borrowed from Corcoran Endowment Fund, as temporary loan to pay on account of notes at National Metropolitan Bank.....	\$7,955 07
	<hr/> \$282,207 57

Corcoran Endowment Fund.

Additional loan on first mortgage, held by Mutual Benefit Life Insurance Co. of Newark, N. J., dated February 1, 1900, three years and six months, at 4 per cent., secured by deed of trust on University and Law Halls, borrowed to pay like amount due National Metropolitan Bank, account construction Columbian Building.	40,000 00
Total indebtedness.....	<hr/> \$322,207 57 <hr/>

The above indebtedness may be classified as follows:

Insurance deposits (90 per cent. returnable) ..	\$4,252 50
General Fund expenses	34,955 07
Law Hall construction	38,000 00
Hospital repairs and old trust on Prep. School.	13,000 00
Columbian Building construction.	40,000 00
Medical School and Hospital construction.....	192,000 00
	<hr/> \$322,207 57

Assessed Valuation of Real Estate.

10

Property.	Square.	Lot.	Assessed value of lot.	Value of im- provements.	Total assessed value.
University Building, 15th and H	422	9, 10, 11, and part 12	Exempt.		
University Hospital	220	South side of 12			
Medical Square	290	101 and 102 of sub 1			
St. B., near Medical School	250	101			
Columbian Building	450	102 and 103			
Carlier House, 222 Third street	Reservation 10	South half of 13			
Admiral Powell House, 1707 I St.	120	11	\$10,828 35	\$65,000 00	\$81,828 35
Unimproved lots		12	9,474 30	6,000 00	15,474 30
		13	9,450 00	10,000 00	19,450 00
	South of 12	14	9,110 00	1,200 00	7,910 00
		15	2,028 00		2,028 00
		16	2,770 00		2,770 00
		17	2,740 00		2,740 00
		18	2,740 44	100	3,140 44
		19	2,742 00		2,742 00
		20	2,742 00		2,742 00
	West of 25	21	1,450 00		1,450 00
		22	1,450 00		1,450 00
		23	2,110 00		2,110 00
		24	1,800 00		1,800 00
		25	2,400 00		2,400 00
		26	2,400 00		2,400 00
		27	2,400 00		2,400 00
		28	2,400 00		2,400 00
		29	2,400 00		2,400 00
Lacey Knight House, 808 M street	368	30	2,400 00	3,800 00	6,200 00
Unimproved lots	172	31	2,400 00		2,400 00
	172	32	2,400 00		2,400 00
	172	33	2,400 00		2,400 00
	172	34	2,400 00		2,400 00
	172	35	2,400 00		2,400 00
	172	36	2,400 00		2,400 00
	172	37	2,400 00		2,400 00
	172	38	2,400 00		2,400 00
	172	39	2,400 00		2,400 00
	172	40	2,400 00		2,400 00
	172	41	2,400 00		2,400 00
	172	42	2,400 00		2,400 00
	172	43	2,400 00		2,400 00
	172	44	2,400 00		2,400 00
	172	45	2,400 00		2,400 00
	172	46	2,400 00		2,400 00
	172	47	2,400 00		2,400 00
	172	48	2,400 00		2,400 00
	172	49	2,400 00		2,400 00
	172	50	2,400 00		2,400 00
	172	51	2,400 00		2,400 00
	172	52	2,400 00		2,400 00
	172	53	2,400 00		2,400 00
	172	54	2,400 00		2,400 00
	172	55	2,400 00		2,400 00
	172	56	2,400 00		2,400 00
	172	57	2,400 00		2,400 00
	172	58	2,400 00		2,400 00
	172	59	2,400 00		2,400 00
	172	60	2,400 00		2,400 00
	172	61	2,400 00		2,400 00
	172	62	2,400 00		2,400 00
	172	63	2,400 00		2,400 00
	172	64	2,400 00		2,400 00
	172	65	2,400 00		2,400 00
	172	66	2,400 00		2,400 00
	172	67	2,400 00		2,400 00
	172	68	2,400 00		2,400 00
	172	69	2,400 00		2,400 00
	172	70	2,400 00		2,400 00
	172	71	2,400 00		2,400 00
	172	72	2,400 00		2,400 00
	172	73	2,400 00		2,400 00
	172	74	2,400 00		2,400 00
	172	75	2,400 00		2,400 00
	172	76	2,400 00		2,400 00
	172	77	2,400 00		2,400 00
	172	78	2,400 00		2,400 00
	172	79	2,400 00		2,400 00
	172	80	2,400 00		2,400 00
	172	81	2,400 00		2,400 00
	172	82	2,400 00		2,400 00
	172	83	2,400 00		2,400 00
	172	84	2,400 00		2,400 00
	172	85	2,400 00		2,400 00
	172	86	2,400 00		2,400 00
	172	87	2,400 00		2,400 00
	172	88	2,400 00		2,400 00
	172	89	2,400 00		2,400 00
	172	90	2,400 00		2,400 00
	172	91	2,400 00		2,400 00
	172	92	2,400 00		2,400 00
	172	93	2,400 00		2,400 00
	172	94	2,400 00		2,400 00
	172	95	2,400 00		2,400 00
	172	96	2,400 00		2,400 00
	172	97	2,400 00		2,400 00
	172	98	2,400 00		2,400 00
	172	99	2,400 00		2,400 00
	172	100	2,400 00		2,400 00

Assessed Valuation of Real Estate—Continued.

Property.	Square.	Lot.	Assessed value of lot, improvements.	Value of improvements.	Total assessed value.
Burgdorf lots.					
"	672	101	\$360 50	.....	\$360 50
"	672	116	360 50	.....	360 50
"	672	117	360 50	.....	360 50
"	672	118	360 50	.....	360 50
"	672	119	360 50	.....	360 50
"	672	120	360 50	.....	360 50
"	672	121	360 50	.....	360 50
"	672	122	360 50	.....	360 50
"	672	123	360 50	.....	360 50
"	672	124	360 50	.....	360 50
"	672	125	360 50	.....	360 50
Waldenbrook school, nos. 1267, 1269, 1271, 1280, B street	250	118	1,200 00	.....	1,200 00
		41..	23,062 00	.....	23,062 00

Table of Insurance.

Perpetual.

Date of policy.	Number of policy.	Name of company.	Property insured.	Amount.	Deposit.
Nov. 1897.	1	5014	Commercial Union	University Hospital	\$7,500 00
Nov. 1898.	1	5014	Commercial Union	University Hospital	\$187 50
Jan'y 5	5016	" "	Order House	5,000 00	125 00
" 6	5017	" "	Peapack House	7,000 00	150 00
" 10	5,919	" "	University Hall	5,000 00	175 00
" 10	116,705	Fire Association	University Hall	5,000 00	175 00
" 10	20,100	Insurance Co. of North America	Deposited with Mercantile Life Insurance Co. of New York, N. J.	10,000 00	350 00
" 12	18,111	American	Deposited with Mercantile Life Insurance Co. of New York, N. J.	10,000 00	350 00
" 12	6,000,000	Royal	Deposited with Mercantile Life Insurance Co. of New York, N. J.	10,000 00	350 00
Nov. 1	18,000	American	Deposited with Mercantile Life Insurance Co. of New York, N. J.	10,000 00	350 00
" 1	20,000	Ins. Co. of N. A.	Columbian Bldg.	10,000 00	250 00
" 1	5,000	Commercial Union	Columbian Bldg.	10,000 00	375 00
" 1	110,100	Fire Association	Columbian Bldg.	10,000 00	375 00
" 19	20,772	Ins. Co. of N. A.	Columbian Bldg.	10,000 00	250 00
" 19	116,403	Fire Association	Medical School	5,000 00	175 00
" 19	5024	Commercial Union	Medical School	5,000 00	175 00
Jan'y 7	5,025	Commercial Union	Law Lecture Hall	10,000 00	250 00
" 7	20,280	Ins. Co. of N. A.	Law Lecture Hall	5,000 00	125 00
" 7	116,687	Fire Association	Law Lecture Hall	5,000 00	125 00
				\$147,000 00	\$4,207 50

Term Insurance.

Date of policy.	Number of policy.	Name of company.	Property insured.	Amount.	Policy expires.
Nov. 20, '98	941,748	Columbia	500 M Street	5,000 00	Nov. 20, 1902
July 10, '98	5,021	Home of N. Y.	Law Lecture Hall	5,000 00	July 10, 1903
Nov. 20, '98	8,007	Home of N. Y.	Fortifore, 1925 H.	5,000 00	Nov. 20, 1903

Indemnity Insurance.

West elevator, Columbian Building, maximum	\$10,000 00
Travellers of Hartford, Connecticut, expires December 1, 1901.	
East elevator, Columbian Building, maximum	10,000 00
Travellers of Hartford, Connecticut, expires December 1, 1901.	

University Bulletin

Vol. 2, No. 2.

FOURTH ANNUAL REPORT

OF THE

BOARD OF GOVERNORS

OF THE

University Hospital (Columbian),

and

WASHINGTON, D. C.

1333 TO 1335 H STREET, N. W.

OCTOBER 31, 1901, TO NOVEMBER 1, 1902.

The University Bulletins are issued quarterly. Application filed at the post-office at Washington, D. C., for entry as second-class matter.

April, 1903



THE UNIVERSITY HOSPITAL—WARD.

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OCTOBER 31, 1901, TO NOVEMBER 1, 1902.

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MRS. CLARENCE DUFOUR	1343 L Street.
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MRS. SHEPARD EVERETT	2110 18th Street.
MRS. FARQUHAR	1918 N Street.
MRS. D. S. FOSTER	19 Iowa Circle.
MRS. NATHANIEL FRANCIS	58 West 58th Street, New York.
MRS. CHARLES GOULD	1617 13th Street.
MRS. JAMES M. GREEN	1329 L Street.
MRS. S. H. GREENE	1320 Q Street.
MRS. ROBERT GUNNELL	1831 Kalorama Avenue.
MRS. FRANCES R. HAGNER	1717 N Street.
MISS ANNA HAZELTON	1215 9th Street.
MRS. H. L. HODGKINS	1830 T Street.
MRS. W. J. HOFFMAN	2222 E Street.
MRS. GARDINER G. HUBBARD	1328 Connecticut Avenue.
MRS. J. C. HORNBLOWER	2030 Hillyer Place.
MRS. WALTER HARBAN	1212 Massachusetts Avenue.

MISS JESSIE E. HOPKINS	1817 10th Street.
MRS. H. L. E. JOHNSON	1821 Jefferson Place.
MRS. A. F. A. KING	1315 Massachusetts Avenue.
MRS. J. HALL LEWIS	1742 R Street.
MRS. S. E. LEWIS	1411 10th Street.
MRS. FRANK LEECH	1715 14th Street.
MRS. C. H. LANE	Glen Carlyn, Va.
MISS CLARA L. LUTZ	1451 Bacon Street.
MRS. C. E. MUNROE	2115 S Street.
MRS. WILLIAM H. MCKNEW	1322 Q Street.
MRS. FRANCIS P. MORGAN	1739 P Street.
MRS. O. A. M. MCKIMMIE	1342 Rhode Island Avenue.
MRS. PHILIP MAURO	1616 22d Street.
MRS. C. W. NEEDHAM	1833 Jefferson Place.
MRS. C. A. OSWELL	1848 Wyoming Avenue.
MISS FANCHON O'CONNELL	2116 O Street.
MISS DEAN OWEN	1315 R Street.
MRS. D. W. PRENTISS	14th and L Streets.
MRS. PORTNER	1104 Vermont Avenue.
MISS HANNAH E. POLKINHORN	2432 Pennsylvania Avenue.
MRS. HENRY B. POLKINHORN	1533 P Street.
MRS. L. E. PAYSON	1229 Massachusetts Avenue.
MRS. C. W. RICHARDSON	1102 L Street.
MRS. MASON RICHARDSON	1846 Wyoming Avenue.
MRS. L. J. RUTHERFORD	2001 O Street.
MRS. CHARLES SCHMIDT	73 K Street.
MRS. T. F. SCHNEIDER	The Cairo.
MRS. HERMANN SCHOENFELD	1337 22d Street.
MRS. A. R. SHANDS	1319 New York Avenue.
MRS. JAMES SHARP	Cleveland Park.
MRS. SLATER	3200 Q Street.
MRS. GEO. O. SMITH	The Iowa.
MRS. W. MCK. STOWELL	1334 Riggs Street.
MRS. JESSIE A. SUNDERLAND	2024 Hillyer Place.
MRS. J. FORD THOMPSON	804 17th Street.
MRS. O. V. TOUSLEY	1353 Roanoke Street.
MRS. F. W. TRUE	1322 Yale Street.
MRS. J. VAN RENSSELAER	2 Thomas Circle.
MRS. W. S. WASHBURN	1223 M Street.
MRS. W. A. WILBUR	1827 S Street.
MRS. A. O. WINBIGLER	1515 Riggs Place.
MRS. ELIZABETH WALBRIDGE	1719 Grant Place.
MRS. FRANK WOLFF	1419 R Street.
MRS. G. A. WOODWARD	614 E Street.
MRS. WINSLOW	2015 G Street.
MRS. CHARLES E. YOUNG	1517 Rhode Island Avenue.

Report of the President.

TO THE BOARD OF GOVERNORS
OF THE COLUMBIAN UNIVERSITY HOSPITAL.

GENTLEMEN :

In my last Annual Report (November, 1901) the hope was expressed that in the absence of donations of money to carry out the proposed extension of the Hospital Building, arrangements might be made by which the necessary means could be secured by loan.

It is now especially gratifying to know that the Board of Trustees of the University, inspired with the spirit of progress and with a loyal regard for the interest and future development of the Medical School, have secured such a loan, and that the new building is now an accomplished fact.

It is needless to say that this event marks a notable epoch in the history of the Hospital and of the Medical Department of the University, from which we may look forward to pronounced beneficent results.

The enlarged Hospital building contains 38 private rooms, newly and comfortably furnished with all modern improvements, some of them with private bath-rooms arranged *en suite*, and open fireplaces. Elevators, sun parlors, a roof garden, and the best arrangements for ventilation, heat, and every home comfort and convenience have been provided.

In the original building arrangements have been made for a Maternity service, and in the new structure, besides the private rooms, wards for medical and surgical cases, containing 40 beds, are complete.

Three operating rooms, fully equipped with modern aseptic and anti-septic appliances, and rooms for a Dispensary service have also been supplied, including a complete sixteen-plate Bowen X-ray apparatus.

The central location of the Hospital and the readiness with which it can be visited by members of the medical staff in case of need are especially desirable.

Anticipating the commencement of the new structure, it was found necessary to decline the admission of new patients after July 19, 1902, and when those already admitted had been discharged the hospital was closed entirely, so that the report of the Resident Physician includes only the patients admitted from November 1, 1901, until July 19, 1902. The report shows that during this time there were admitted to the Medical service 47 cases; to the Surgical service 43 cases, and to the Gynecological service 12 cases, making a total of 102 admissions. The surgical operations numbered 45.

Finances.—Leaving out of consideration all financial matters relating to the new building, and considering only the actual receipts and expenses of the Hospital from November 1, 1901, to August 31, 1902 (the Board of Trustees having fixed upon August 31st as the future termination of the fiscal year, instead of October 31st, as formerly), the Report of the Treasurer shows that during this period of ten months the total receipts were \$5,848.91, and the disbursements for the same period \$5,238.23, thus leaving a surplus of \$610.68. Of the receipts the sum of \$1,000.00 was contributed by the Medical Faculty, and \$911.10 by the Board of Lady Managers.

The *Cash Statement* of the Registrar, Mr. Charles W. Holmes (being a continuation of the cash statement published in the last, third, Annual Report), shows that the deficit for the year ending October 31, 1901, viz :

\$1,303.78, has been liquidated in part by the surplus of \$610.68, and the remainder \$693.10 was paid by the Medical Faculty, August 31, 1902, thus leaving an evenly balanced account at the end of the fiscal year terminating on this last named date.

The report of the Treasurer of the Board of Lady Managers—Mrs. H. L. Hodgkins—shows that the receipts of the Board during the year (including the balance of \$210.25 left over from the preceding year), were \$1,339.60, of which \$911.10 have been paid over to the Treasurer of the University, for the Hospital Fund, leaving a balance in bank of \$428.50.

In accentuating the value of clinical instruction in the first Annual Report of this Hospital, the statement was made that "old physicians must die and young ones succeed them," and that "clinical instruction was the medium by which the experienced medical veteran bequeathed the knowledge of a life to his youthful successors." It will be remembered that within a few months thereafter, this statement received painful confirmation by the decease of Dr. D. W. Prentiss. During the year just passed the same fact was again brought home to us, with mournful and redoubled emphasis by the unexpected demise of the late Dr. W. W. Johnston, whose untimely end at once dispersed the wealth of knowledge a long life of experience had enabled him to accumulate, leaving no trace behind, except the treasures of information stored in the minds of medical students to whom he had freely transferred the fund of his own acquirements, by clinical instruction during his life.

While the Medical Faculty of the University and the medical profession of Washington, have already expressed in a public manner their great appreciation of Dr. Johnston and his remarkable professional abilities, it is gratifying to know that steps have also been taken to establish in connection with this Hospital a suitable memorial to record in a permanent manner his valued work in this institution.

In conclusion it gives us great pleasure to extend to the Board of Lady Managers our most sincere thanks for their continued loyal devotion to the interests of the Hospital and for the liberal contribution they have made to the Hospital funds.

We also extend our thanks to Dr. H. W. Tobias, the Resident Physician; to his assistants Drs. Joseph Rogers, W. J. Robey, A. T. Nelson, and E. Y. Gilchrist; to the Corps of Physicians by whom the Dispensary Service has been carried on; and also to Miss A. G. Odell, the Superintendent.

Respectfully submitted,
A. F. A. KING, M. D.,
President.

MEDICAL CASES.

	Admitted		Cured.		Improved.		Unimproved.		Died.	
	M	F	M	F	M	F	M	F	M	F
Addison's disease	1				1					
Aneurism, arch of aorta.....	1				1					
Asthma	1				1					
Asthmatic bronchitis	1				1					
Bronchocystis	1								1	
Bronchitis, chronic	1				1					
Cerebro-spinal meningitis	1									1
Cystitis, chronic	2		1		1					
Dysentery	1								1	
Epilepsy	1				1					
Fever, enteric	1	1	1	1						
Fever, intermittent, tertian	2		1		1					
Gastritis, acute	1	1	1	1						
General debility	1				1					
Hysteria	1				1					
Influenza	3	1	3	1						
Irritable heart	1				1					
Leucaemia, spleno-medullary	1								1	
Lumbago	1		1							
Nephritis, acute parenchymatous	1				1					
Nephritis, chronic parenchymatous	1				1					
Nephritis, chronic interstitial	1				1					
Neurasthenia	4	6	1	2	3	4				
Neurasthenia and goitre	1				1					
Pneumonia, lobar	2		1						1	
Rheumatism, acute	1		1							
Syphilis, secondary	1				1					
Valvular disease of the heart	2	1			1	1			1	
Totals	27	20	9	7	13	12			5	1

SURGICAL CASES.

	Admitted.		Cured.		Improved.		Unimproved.		Died.	
	M	F	M	F	M	F	M	F	M	F
Abscess, ankle.....			1			1				
Abscess, neck.....			1			1				
Amaurosis.....			1	1						
Appendicitis.....										
Appendicitis with general peritonitis.....			1						1	
Bubo.....			1	1						
Carcinoma, mediastinal.....			1							1
Deflected nasal septum.....			1	1						
Depressed nasal bone.....			1							
Epispadias.....				1						
Epithelioma of lip.....			1			1				
Epithelioma of nose.....			1			1				
Fistula in ano.....			1	1						
Fistula in ano, hemorrhoids.....			1	1						
Fracture of patella.....			1	1						
Fracture of ribs.....			1		1					
Hernia, inguinal.....			1	1						
Hernia, inguinal, pneumonia.....			1						1	
Hernia, omental.....			1	1						
Hemorrhoids.....			1	1	1					
Hydrocele.....			1	1						
Hypertrophied tonsils, pharyngeal adenoids.....			1	1						
Pleurisy with effusion, mitral regurgitation.....			1						1	
Rupture of sterno-cleido-mastoid muscle.....			1	1						
Sarcoma of ilium.....			1		2	1				
Sprain of ankle.....			1					2		
Sprain of back.....			1	1						
Sprain of hip.....			1	2		1		1		
Sprain of knee.....			1	1						
Stricture of rectum.....			1	1						
Synovitis of knee.....			1	1						
Ulcer of cornea.....			1			1				
Ulcer of foot.....			2			1		1		
Ulcer, gastric.....			1	1						
Varicocele.....			5	3						
Totals.....	32	11	22	4	5	4	1	3	3	1

SURGICAL OPERATIONS.

OPERATION.	DIAGNOSIS.	Admitted.	Cured.	Improved.	Unimproved.	Died.
Appendectomy.....	Appendicitis.....	3	2			1
Curettement of ulcer.....	Ulcer of foot.....	2			2	
Curettement of uterus.....	Dysmenorrhea.....	1	1			
Curettement of uterus.....	Endometritis.....	1	1			
Curettement of uterus.....	Excessive vomiting of pregnancy.....	1				1
Elevation of.....	Depressed nasal wall.....	1	1			
Excision of eye.....	Rupture following corneal ulcer.....	1	1			
Excision of eye.....	Bulbo.....	1	1			
Exploratory incision.....	Ulcer of foot.....	1		1		
Herniotomy.....	Sarcoma of ilium.....	1			1	
Herniotomy.....	Inguinal hernia.....	2	2			
Hysterectomy.....	Omental hernia.....	1	1			
Incision for.....	Carcinoma of uterus.....	1	1			
Incision for.....	Abscess of ankle.....	1		1		
Incision for.....	Abscess of neck.....	1		1		
Incision for.....	Fistula in ano.....	2	1	1		
Incision for.....	Hooded clitoris.....	1	1			
Oophorectomy, trachelorrhaphy and curettement.....	Cystic ovaries, lacerated cervix and endometritis.....	1	1			
Perineorrhaphy.....	Laceration of perineum.....	1	1			
Plaster cast applied.....	Rupture of sterno-cleido-mastoid muscle.....	1	1			
Plastic operation for.....	Epiptadias.....	1	1			
Plastic operation for.....	Epithelioma of lip.....	1		1		
Plastic operation for.....	Epithelioma of nose.....	1		1		
Radical operation for.....	Hemorrhoids.....	2	2			
Radical operation for.....	Hemorrhoids and fistula.....	1	1			
Radical operation for.....	Hydrocele.....	1	1			
Radical operation for.....	Varicocele.....	5	5			
Removal of.....	Hypertrophied tonsils.....	1	1			
Removal of.....	Pharyngeal adenoids.....	1	1			
Replacement of.....	Deflected nasal septum.....	1	1			
Salpingo-oophorectomy and hysterectomy.....	Carcinoma of uterus.....	1	1			
Stoltz's operation, trachelorrhaphy, perineorrhaphy and curettement.....	Cystocele, lacerated cervix and perineum, endometritis.....	1	1			
Tapping thoracic cavity.....	Pleurisy with effusion.....	2			1	1
Wiring of.....	Fractured patella.....	1	1			
Totals.....		45	32	5	5	3

GYNÆCOLOGICAL CASES.

	Admitted.	Cured.	Unimproved.	Died.
Carcinoma, uteri.....	2	1	1	
Cystic ovaries and appendicitis.....	1	1		
Cystic ovaries, endometritis and lacerated cervix.....	1	1		
Cystocele, endometritis, lacerated cervix and perineum.....	1	1		
Dysmenorrhœa.....	1	1		
Endometritis.....	1	1		
Hooded clitoris.....	1	1		
Lacerated perineum.....	1	1		
Pregnancy.....	1		1	
Pregnancy, excessive emesis.....	1			1
Salpingitis.....	1	1		
Totals.....	12	10	1	1

HENRY W. TOBIAS,
Resident Physician.

Report of the Treasurer of the Board of Lady Managers.

Marie W. Hodgkins, Treasurer, in account with the Board of Lady Managers of the University Hospital, Columbian. Nov. 1, 1901, to Nov. 1, 1902:

Dr.		1901-1902.	
Nov. 1.	To cash on hand	\$210.25	
	Annual dues	450.00	
	Sustaining members and donations	264.60	
	Fines	78.50	
	Proceeds of tea	206.00	
	Furnishing fund	130.00	
	Interest . . . . .	.25	
Total		\$1,339.60	
Cr.		1902.	
Jan. 11.	By check to the Columbian University	\$650.00	
Mar. 6.	By check to the Columbian University	112.00	
April 28.	By check to the Columbian University	149.10	
Nov. 1.	By balance in the "Washington Loan & Trust Co."	428.50	
Total		\$1,339.60	

The undersigned report that they have examined the foregoing account, find it correctly cast and properly vouched, and that the Treasurer has evidence of funds in her possession amounting to four hundred and twenty-eight dollars and fifty cents (\$428.50).

ELEANOR KING BUTLER,
CLARA ALMA LUTZ,
Auditing Committee.

Report of the Treasurer.

NOVEMBER 1, 1901, TO AUGUST 31, 1902.

Receipts.

From the Superintendent	\$3,933.79
From the Board of Lady Managers	911.10
From Medical School, 4th annual contribution	1,000.00
Over-payment J. B. Lambie, returned . . . . .	.67
Cancelled check	3.35
	<hr/>
	\$5,848.91

Disbursements.

For salaries	\$1,783.10
For table supplies	1,732.15
For house expenses	1,469.46
For dispensary supplies	253.52
Surplus for the period	610.68
	<hr/>
	\$5,848.91

CASH STATEMENT.

Deficit of Hospital from June 1, 1901, to Oct. 31, 1901,	\$1,303.78
Receipts from Nov. 1, 1901, to Aug. 31, 1902	\$5,848.91
Disbursements same period	5,238.23
Surplus	610.68
	<hr/>
Deficit from June 1, 1901, to Aug. 31, 1902.	\$693.10
Paid by Medical Faculty Aug. 31, '02	693.10
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THE UNIVERSITY HOSPITAL—PRIVATE ROOM

Sustaining Members and Contributions.

Mrs. W. J. Washburn.....	\$5.00	Mrs. F. P. Morgan.....	\$5.00
Mrs. H. B. Polkinhorn.....	5.00	Mrs. W. A. Wilbur.....	5.00
Mrs. G. V. R. Berry.....	5.00	Mrs. Gardiner Hubbard.....	5.00
Mrs. F. W. True.....	5.00	Mrs. Everett.....	5.00
Mrs. Frank E. Altemus.....	5.00	Mrs. Walbridge.....	5.00
Mrs. L. J. Rutherford.....	5.00	Mrs. Mitchell Carroll.....	5.00
Mrs. John Van Rensselaer.....	5.00	Mrs. Eugene Byrnes, (2 years).....	10.00
Mrs. J. H. Lewis.....	5.00	Mrs. F. W. True.....	5.00
Mrs. A. R. Shands.....	5.00	Mrs. Hermann Schoenfeld.....	5.00
Mrs. Portner.....	5.00	Mrs. C. R. Schmidt.....	5.00
Miss Hannah E. Polkinhorn.....	5.00	Mrs. M. N. Richardson.....	5.00
Mrs. Winslow.....	5.00	Mrs. H. L. Cranford, S. M.....	5.00
Mrs. J. M. Green.....	5.00	Mr. Percy Cranford, S. M.....	5.00
Mrs. H. C. Thompson.....	5.00	Miss Anna S. Hazleton.....	5.00
Mrs. A. F. A. King.....	5.00	Miss McCauley.....	5.00
Mrs. Charles Gould (2 years).....	10.00	Mrs. J. C. Nourse, S. M.....	5.00
Mrs. O. A. M. McKimble.....	5.00	Miss Marion C. Everett, S. M.....	5.00
Mrs. M. W. Griffith.....	5.00	Mrs. F. W. True, donation.....	15.00
Mr. Henry Polkinhorn, S. M.....	5.00	Mrs. Eugene Byrnes, donation.....	15.00
Mrs. Nathaniel Francis.....	5.00	Mrs. C. V. R. Berry.....	5.00
Mrs. Nathaniel Francis, donation.....	20.00	Mrs. D. W. Prentiss.....	5.00
Mrs. W. K. Butler.....	5.00	Mr. John P. Love, S. M.....	5.00
Mrs. H. L. Hodgkins.....	5.00	Through Mrs. Walbridge, donation.....	5.00
Mr. J. B. Lambie, S. M.....	5.00	Mr. Henry H. Bates, donation.....	5.00
Mr. Frank C. Henry, S. M.....	5.00	Mrs. S. C. Briggs, donation.....	20.00
Mr. C. A. Shafer, S. M.....	5.00	Mrs. C. J. Bell.....	5.00
Mr. Wm. A. Henderson, S. M.....	5.00	Col. Wm. B. Thompson, S. M.....	5.00
Mr. N. W. Burchell, S. M.....	5.00	Dr. H. L. E. Johnson, S. M.....	5.00
Mr. B. H. Stinemetz, S. M.....	5.00	Mrs. Clarence Dufour.....	5.00
Mr. J. Maury Dove, S. M.....	5.00	Mrs. Stowell.....	5.00
Mr. Chas. A. James, S. M.....	5.00	Mrs. Hornblower.....	5.00
Dr. A. F. A. King, S. M.....	5.00	Mrs. J. A. Sunderland.....	5.00
Mrs. Charles W. Richardson.....	5.00	Mrs. McKnew.....	5.00
Mrs. Z. T. Bowers, S. M.....	5.00	Miss M. H. Brewer.....	5.00
Mrs. John H. Small, S. M.....	5.00	Miss Jessie Hopkins.....	5.00
Dr. J. R. Wellington, S. M.....	5.00	Mrs. B. P. Mimmack, S. M.....	5.00
Mr. C. R. Edmonston, S. M.....	5.00	Dr. W. F. R. Phillips, S. M.....	5.00
Mr. T. E. O'ram, S. M.....	5.00	Mrs. George Barrie.....	5.00
Mrs. Frank Wolff.....	5.00	Mrs. A. Herman, donation.....	5.00
Mrs. S. H. Greene.....	5.00	Mrs. Nathaniel Francis.....	5.00
Mrs. Robert Gunnell.....	5.00	Mrs. Nathaniel Francis, donation.....	20.00
Miss Anna Sargent, S. M.....	5.00	Mrs. Walter Harban.....	5.00
Miss O'Connell.....	5.00	Miss H. E. Polkinhorn.....	5.00
Mrs. Farquhar.....	5.00	Mrs. Gunnell.....	5.00
Mrs. Moncure Burke.....	5.00	Dr. James L. Suddarth, donation.....	10.00
Mrs. Tousley.....	5.00	Mrs. Margurite L. Dutton.....	5.00
Mrs. L. E. Payson.....	5.00	Mrs. W. K. Butler.....	5.00
Mr. E. F. Droop, S. M.....	5.00	Mrs. Henry Polkinhorn.....	5.00
Miss Isabel H. Lenman, S. M.....	5.00	Mrs. W. H. Hoeke.....	5.00
Mrs. D. K. Shute (2 years).....	10.00	Mrs. Washburn.....	5.00
Miss Annie Wayland, S. M.....	5.00	Mrs. Farquhar.....	5.00
Mrs. Charles Lane.....	5.00	Mrs. F. W. True.....	5.00
Mrs. Horatio Bigelow.....	5.00	Mrs. Berry.....	5.00
Mrs. C. M. McCordle, donation.....	10.00	Mrs. Foster.....	5.00
Mrs. Sarah A. Clemons, S. M.....	5.00	Mrs. C. J. Bell.....	5.00
Mrs. Frank Leech.....	5.00	Mrs. Gardiner Hubbard.....	5.00
Mrs. D. S. Foster.....	5.00	Mrs. S. S. Everett.....	5.00
Mrs. Oswald, donation.....	.60	Mrs. Shands.....	5.00
Mrs. H. C. Thompson, donation.....	1.00	Mrs. Rutherford.....	5.00
Mrs. Farquhar, donation.....	1.00	Mrs. Brown.....	5.00
Mrs. Polkinhorn, donation.....	1.00	Mrs. H. C. Thompson.....	5.00
Miss Polkinhorn, donation.....	1.00	Mrs. Slater.....	5.00
Mrs. Walbridge, donation.....	1.00	Mrs. Chas. Young.....	5.00
Mrs. C. W. Richardson, donation.....	1.00	Miss Lutz.....	5.00
Mrs. Gunnell, donation.....	1.00	Mrs. Moncure Burke.....	5.00
Mrs. Lane, donation.....	1.00	Mr. H. B. Polkinhorn, S. M.....	5.00
Mrs. Van Rensselaer, donation.....	1.00	Miss M. H. Brewer.....	5.00
Mrs. Berry, donation.....	1.00	Mrs. J. H. Sunderland.....	5.00
Mrs. Brown, donation.....	1.00	Mrs. Castelli.....	5.00
Mrs. Bovee, donation.....	1.00	Mrs. H. L. E. Johnson.....	5.00

Donations November 1, 1901, to May 1, 1902.

Mrs. Shallenberger—Magazines and old linen, sweet potatoes.
 Miss Grosseman—Twin oaks, cut flowers.
 Col. Bingham—Cut flowers.
 National Plant, Flower and Fruit Guild—Cut flowers.

Thanksgiving, November, 1901.

Mrs. H. Polkinhorn—\$1.00 for Thanksgiving dinner.
 Mrs. Geo. Brown—\$1.00 for Thanksgiving dinner.
 Mrs. Winslow—\$1.00 for Thanksgiving dinner.
 Mrs. Rutherford—\$1.00 for Thanksgiving dinner.
 Mrs. M. Richardson—\$1.00 for Thanksgiving dinner.
 Mrs. Portner—\$1.00 for Thanksgiving dinner.
 Mrs. Gunnell—\$1.00 for Thanksgiving dinner.
 Miss Polkinhorn—\$1.00 for Thanksgiving dinner.
 Mrs. Walbridge—1 gal. ice cream.
 Mrs. H. C. Coburn—1 turkey.
 Mrs. P. D. McNeally, Lovetsburg, Va.—1 turkey.
 Dr. H. C. Yarrow—100 lbs. granulated sugar.
 Mrs. H. C. Yarrow—1 barrel flour.
 Dr. A. F. A. King—1 barrel apples.
 Mrs. A. F. A. King—1 barrel flour.
 Mrs. Shallenberger—Preserves and mince meat.
 Mrs. Wolf—Pickles and catsup.

December, 1901.

Dr. W. W. Johnston—Drugs.
 Mrs. B. P. Watrous—Old linen.
 Mrs. Hodgkins—Rug for "Cuthbert Room."
 Dr. F. P. Morgan—Drugs.

Christmas Donations, December, 1901.

Mr. W. H. Hoeke—2 turkeys.
 Mrs. W. H. Hoeke—1 gal. ice cream.
 Mrs. Walbridge—1 turkey, cranberries.
 Mr. Frank E. Altemus—Oranges and jelly.
 Mrs. W. K. Butler—Preserves and jelly.
 Mrs. Shallenberger—Christmas greens.
 Mrs. Annie V. Geyer, 1347 L St., N. W.—1 cake.
 Mrs. Chas. Bell—Christmas greens.
 Mrs. C. W. Richardson—Christmas greens.
 Mr. Morrison, O St. market through Mrs. Dr. Morgan—Potatoes and celery.
 Mrs. Gardiner Hubbard—\$5.00 for Christmas dinner.
 ————Christmas greens.
 Dr. W. W. Johnston—Book, Cabot's "Clinical Examination of the Blood."

Donation Day, December 5, 1901.

Mrs. Sam'l Martin, 1102 L St., N. W.—Bananas.
 Miss Ellen Loscoe—Apples.
 Miss Mary Levy—Coffee.

- Mr. Henry McKenzie—Cereals and potatoes.
 Mr. Henry Martin—Sweet potatoes.
 Mr. John E. Thomas—3 cans tomatoes, 3 cans corn.
 Mrs. G. H. Brown—5 lbs. coffee.
 Mrs. Mary Wetmore—1 doz. tumblers.
 Mrs. Lane—3 jars jelly.
 Mrs. Geo. Cotton Maynard, 1407 15th St., N. W.—6 jars jelly.
 Dr. T. Ritchie Stone—50 lbs. granulated sugar.
 Mrs. T. Ritchie Stone—Preserved plums, chili sauce, crabapple jelly and apples.
 Mrs. A. P. Eastman, Fall Church, Va.—6 jars jelly.
 Mrs. C. W. Richardson—10 jars jelly, 5 jars pickles.
 Mrs. J. H. Small—12 bunches celery.
 Mrs. W. H. Herron, 1508 Q St., N. W.—2 sheets, 2 pillowcases.
 Mrs. Chas. E. Young, 1508 Q St., N. W.—2 sheets, 2 pillowcases.
 Mr. Chas. Rauscher—1 gal. salad.
 Mrs. Cranford—1 gal. chicken salad, 1 cake.
 Dr. A. A. Fitch—5 boxes fancy soaps.
 Mr. Corbin Thompson—2 gals. cream.
 Mrs. W. K. Butler—Candy, 1 cake.
 Mrs. Briggs, 1719 Grant St.—3 cakes.
 Mrs. Slater—Chicken salad.
 Mrs. Oswell, 1848 Wyoming Ave.—Salad, cakes, candy, oranges.
 Mrs. A. F. A. King—Whipped cream, nuts and candy.
 Mrs. S. G. B. Winslow, 2015 G St., N. W.—Three fancy articles, cash \$1.00.
 Mrs. Shallenberger—1 cake, box candy, holly.
 Miss Mary Jennings—Rice and old linen.
 Mrs. Lane—Two cakes.
 Mrs. J. Ford Thompson—Whipped cream.
 Mrs. L. E. Payson, 1229 Mass. Ave.—2 cakes.
 Mrs. J. Hall Lewis—Salad.
 Mrs. Chas. Richardson—1 cake.
 Mrs. Berry—cake.
 Mrs. Wilbur—cake.
 Mrs. Polkinhorn—cake.
 Mrs. W. H. Hoeke—Cash, \$10.00.
 Mrs. True—Cake.
 Miss Helen Woodward—Cash, \$4.00.
 Mrs. D. W. Prentiss—Cake.
 Mrs. Burke—Cake.
 Mrs. W. H. Hoeke—Salad.
 Mrs. McCoy—Crackers.
 Mrs. B. P. Watrous—Cake.
 Mr. Gude—Cut flowers.
 No name—Cash, 50 cts.
 Miss Blanche Polkinhorn—2 jars jelly.
 The Forest Glen—Box candy.
 Miss Lutz—2 boxes candy.
 Mrs. Osburn—1 box candy.
 Mrs. W. F. Holtzman—Preserves.
 Mrs. B. P. Watrous—Sofa pillow.
 Mrs. Mitchell Carroll—Cash, \$1.00.
 Mrs. Walter Harban—Salad.
 Miss L. Acker, 931 16th St., N. W.—1 bbl. flour.
 Miss Alice Hall—Cake.
 Miss Louise Kauffman, 1435 Mass. Ave.—Cash, \$1.00.

Mrs. Barrett—Cash, \$2.00, for towels.
 Mrs. Dodge—Cash, \$1.00.
 Miss Hazelton—Cash, \$1.00.
 Mrs. Polkinhorn (from Mrs. Philip Mauro)—Cash, \$10.00.
 Mrs. Desu—Cash, 50 cts.

January, 1902.

Mr. Henry M. Allen, Troy, Ohio—100 lbs. Graham flour, through
 Mrs. O. A. M. McKimmie.
 Mrs. J. Hall Lewis, 1742 R St., N. W.—Grapes.
 Mrs. B. L. Hardin—20 lbs. cut sugar.
 Mrs. A. F. A. King—20 boxes oat meal.
 Dr. A. F. A. King—100 lbs. granulated sugar.
 Miss McCauley—2 lbs. tea.
 Cuthbert Memorial Room—1 doz. large towels, through Mrs. Hodgkins.
 Col. Bingham—Cut flowers.
 Mr. Brown—Booklets.
 Mrs. Shallenberger—Cut flowers, old linen.
 Mrs. Rutherford—1 doz. tumblers.
 Mrs. W. H. Hoeke—3 doz. tumblers.
 Mrs. C. W. Howard, 337 C St., N. W.—1 gal. chicken broth.
 National Plant, Flower and Fruit Guild—Cut flowers.
 National Plant, Flower and Fruit Guild—Cut flowers.
 No name—1 sheet for Cuthbert Memorial Room.

February, 1902.

Mrs. Wm. Conyngton—Magazines.
 ————Magazines.
 Sharpe & Dohme, Baltimore, Md.—4 bot. beef tonic.
 National Plant, Flower and Fruit Guild—Cut flowers.
 Mrs. Bigelow—Magazines.
 Mrs. Shallenberger—Cut flowers.
 Dr. A. F. A. King—Drugs.
 Dr. Homer Medford—2 surgical instruments.
 Dr. D. K. Shute—1 Harvard surgical chair.

March, 1902.

Mrs. Robert Portner—Flowers.
 Mrs. Polkinhorn, for First Baptist church room—1 sheet.
 Mrs. H. B. Polkinborn, for First Baptist church room—2 sheets.
 The Friday Morning Sewing Society—24 sheets, 24 pillowcases, 48 tea
 towels, 12 dusters.
 Mrs. Walbridge—2 feather dusters.
 Dr. H. C. Yarrow—Drugs and magazines.
 Dr. Morgan—Drugs.
 No name—Magazines.
 The Board of Lady Managers—\$12.00 for Easter dinner.
 Mrs. W. H. Hoeke—Ice cream for Easter dinner.
 Mrs. C. W. Richardson—Easter plants.
 Mrs. Shallenberger—Easter plants.

April, 1902.

Mrs. Shallenberger—old linen.
 Mrs. J. W. Brace—3 cakes, ice cream.
 Mrs. Shallenberger—cut flowers, old linen.
 Col. Bingham—Cut flowers.
 Mrs. H. C. Lodge, 1765 Mass. Ave.—Potted plants.
 Mrs. H. C. Thompson—Crutches.
 Mrs. D. S. Foster—Magazines.
 Mrs. W. S. Thompson—Crutches.
 Mrs. Shallenberger—2 baskets berries.

